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Current Fishery Statistics No. 8200

Fisheries of the United States, 1981

April 1982

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National Oceanic and
Atmospheric Administration

National Marine
Fisheries Service

Current Fishery Statistics No. 8200

Fisheries of the United States, 1981

Prepared by
Resource Statistics Division
B.G. Thompson, Chief

Washington, D.C.
April 1982

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U.S. DEPARTMENT OF COMMERCE
Malcolm Baldrige, Secretary

National Oceanic and Atmospheric Administration
John V. Byrne, Administrator

National Marine Fisheries Service
William G. Gordon, Assistant Administrator for Fisheries

PREFACE

FISHERIES OF THE UNITED STATES, 1981

This publication is a preliminary report for 1981 on commercial and marine recreational fisheries of the United States and foreign catches in the U.S. Fishery Conservation Zone (FCZ). This annual report provides timely answers to frequently asked questions for the previous year. All data in this publication are consistent with the provisions of the Federal Reports Act of 1942.

MARINE RECREATIONAL FISHING

A section of this publication briefly describes the background and methodology of the Marine Recreational Fishery Statistics Surveys. The results presented on recreational catch by species, number, weight, area and mode of fishing, and number of fishermen and trips are taken from the 1979 survey report for the Atlantic and Gulf coasts.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, compiled and collected data on U.S. commercial landings and processed fishery products. The NMFS Field Offices compiled data on the foreign catch from reports by designated foreign officials. The NMFS Resource Statistics Division in Washington, D.C., tabulated and prepared the data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, Food and Agriculture Organization (FAO) of the United Nations, and the countries fishing in the U.S. FCZ.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, foreign catches, employment, prices, and production of processed products are preliminary for 1981. Final data will be published in Fishery Statistics of the United States. Publication of monthly and annual state landings bulletins has been discontinued.

UNITS OF QUANTITY AND VALUE

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings and foreign catch are shown in round weight (mollusk-shells excluded) unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic catch is exvessel (see Glossary); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges.

SUGGESTIONS

The Resource Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:

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REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 States were 6.0 billion pounds valued at $2.4 billion in 1981, down 8 percent in quantity but up 7 percent in value compared with 1980. These were the lowest U.S. landings since 1977 (5.2 billion pounds). In 1981, increased landings of anchovies, clams, cods, Pacific mackerel, rockfishes, salmon, and squid were offset with declines in other major species such as crabs, flounders, menhaden, Atlantic sea herring, and tuna. Prices in 1981 of most edible fish and shellfish increased slightly. The average exvessel price per pound was 40 cents in 1981 compared with 35 cents in 1980.

Commercial catches by U.S. fishermen at ports outside the 50 States or transferred in the U.S. fishery conservation zone (FCZ) onto foreign vessels (joint ventures) were an additional 473.5 million pounds valued at $129.8 million. This was an increase of 85 percent in quantity and 27 percent in value when compared with 1980. Most of these landings consisted of tuna landed at canneries in Puerto Rico and groundfish transferred to foreign vessels.

Edible fish and shellfish landings in the 50 States were 3.5 billion pounds in 1981, down 3 percent compared with 1980. Landings of salmon increased, but there were declines in crab, flounder, and tuna landings. In 1981, domestic production was 53 percent and imports 47 percent of the total U.S. supply.

Landings for reduction and other industrial purposes by U.S. fishermen in the 50 States were 2.4 billion pounds in 1981, 14 percent less than 1980. The decrease is attributed to small catches of menhaden, the dominant industrial fish, for the second year in a row.

FOREIGN CATCH IN U.S. FCZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. fishery conservation zone (FCZ) was 1.7 million metric tons (3.6 billion pounds) in 1981, 2 percent higher than in 1980 and 10 percent below the average for the 5 preceding years. As in other years, the FCZ off Alaska supplied by far the largest share of the foreign catch (91 percent), followed by the North Atlantic (5 percent); Washington, Oregon, and California (4 percent); and Hawaii and the Pacific islands (less than one tenth of 1 percent).

Alaska pollock comprised 68 percent of the foreign catch, Pacific flounders were 6 percent, Pacific cod and hake (whiting) 4 percent, and other fish and shellfish the remainder.

Japan continued as the leading nation fishing in the U.S. FCZ with a catch of 1.2 million metric tons or 70 percent of the total foreign catch in 1981. Catches by vessels of the Republic of Korea, the second most important catching nation, were 243,000 metric tons, 16 percent above 1980.

U.S. VS. FOREIGN CATCH IN U.S. FCZ. The combined catch by U.S. and foreign vessels in the FCZ was 2.7 million metric tons in 1981, up 7 percent compared with 1980. The U.S. share rose to 39 percent of the total, up from 36 percent in 1980.

MARINE RECREATIONAL CATCH. The data shown in the publication are for the Atlantic Coast and Gulf of Mexico Coast for 1979 and are part of a recently initiated survey of marine recreational fisheries in the United States. Survey results for other areas were not available in time to be included in the publication, but will be published in the next few months. Fisheries of the United States, 1982, will contain data on the total U.S. marine recreational catch.

WORLD LANDINGS. In 1980, the most recent year for which data are available, world commercial fishery landings were a record 72.2 million metric tons, 1 percent more than the revised 1979 total of 71.3 million metric tons. Japan continues to be the leading nation with 14 percent of the total; the USSR, second with 13 percent; China, third with 6 percent; United States, fourth with 5 percent; and Chile, fifth with 4 percent.

PRICES. During 1981, the Index of Exvessel Prices for Fish and Shellfish increased to 431.0. The index (1967=100) for edible fish was 439.9, up 8 percent from 1980. Among the few exceptions to this upward trend were the exvessel prices for Pacific halibut, salmon, and whiting which declined slightly. The index for industrial fish was 314.1 for 1981, down less than 1 percent compared with 1980. The edible shellfish index increased from 376.4 in 1980 to 427.7.

PROCESSED PRODUCTS. The 1981 value of domestic production of edible and nonedible processed fishery products was $4.9 billion, $451.3 million above 1980. The value of edible products increased to $4.5 billion, 11 percent above 1980. All categories of edible products increased in value except fish portions which declined $25.2 million. The value of industrial products of $433.7 million in 1981 was $16.0 million more than 1980.

FOREIGN TRADE. Total import value of edible and nonedible fishery products was a record $4.2 billion in 1981, an increase of 14 percent compared with 1980. U.S. imports of edible fishery products were 2.3 billion pounds (product weight) valued at a record $3.0 billion in 1981, up 6 percent in quantity and 13 percent in value. U.S. imports of nonedible (industrial) products were valued at $1.1 billion in 1981, up 18 percent compared with 1980.

Total export value of edible and nonedible fishery products of domestic origin was a record $1.2 billion in 1981, an increase of 15 percent over 1980. The United States exported a record 669.3 million pounds of edible fishery products valued at $1.1 billion in 1981, up 17 percent in quantity and 19 percent in value from 1980. Exports in 1981 of nonedible products were valued at $84.2 million, 17 percent less than the nonedible products exported one year ago.

SUPPLY. THE U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 8.3 billion pounds in 1981, 3 percent more than 1980. The change includes an 8 percent increase in imports of edible fishery products and a 3 percent decrease in domestic landings. The supply of industrial fishery products was 3.1 billion pounds in 1981, 8 percent less than 1980. A decrease in domestic landings of industrial products contributed to this decline.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 13.0 pounds of edible meat per person in 1981, up 0.2 pound from 1980.

REVIEW

OTHER IMPORTANT FACTS

Menhaden landings in 1981 of 2.1 billion pounds (955,000 metric tons) made up 35 percent of the commercial fishery landings in the United States.

Salmon was the second most important in quantity and value.

Crabs were the third most important in quantity and value.

Shrimp was the fourth most important in quantity and first in value.

Tuna was the fifth most important in quantity, but fourth in value.

Scallops were fifth in value.

Tuna landings by U.S. craft at ports outside the United States amounted to 148.7 million pounds, mostly landed at Puerto Rican ports. Other species landed at ports outside the United States were shrimp, at Central and South American ports, and Pacific groundfish and squid onto foreign vessels in the U.S. FCZ.

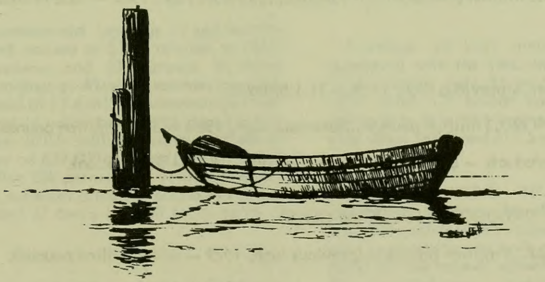
Cameron, Louisiana, was the leading U.S. port in quantity of commercial fishery landings. The second was Los Angeles Area, California, followed by Empire-Venice, Louisiana; Pascagoula-Moss Point, Mississippi; and Dulac-Chauvin, Louisiana. Menhaden was the principal species landed at these ports, except at the Los Angeles Area, where tuna was the principal species.

Kodiak, Alaska was the leading U.S. port in terms of value, followed by the Los Angeles Area and San Diego, California; New Bedford, Massachusetts; and Dutch Harbor, Unalaska, Alaska.

Louisiana led all States in volume of landings with 1.2 billion pounds, followed by Alaska with 975.2 million pounds; California with 775.2 million; Virginia with 487.9 million; and North Carolina with 432.0 million pounds.

Alaska led all States in value with $639.8 million, followed by California with $275.2 million; Massachusetts with $196.9 million; Louisiana with $193.5 million; and Texas with $174.8 million.

Joint venture catches in 1981 of 307.8 million pounds valued at $21.0 million were caught by U.S. fishermen and unloaded onto foreign vessels in the U.S. FCZ. This represents a substantial increase over 1980, when 137.7 million pounds were caught valued at $8.4 million. The major species caught were Alaska pollock, Pacific hake (whiting), and Pacific flounder.



REVIEW

RECORDS ESTABLISHED

U.S. COMMERCIAL LANDINGS

Value of U.S. commercial landings — $2.4 billion....(previous high, 1980 — $2.2 billion).

Bluefish — 16.7 million pounds and $3.2 million....(previous high, 1980 — 15.7 million pounds and $2.4 million).

Cods — $42.8 million....(previous high, 1980 — $38.0 million).

Rockfishes — 118.8 million pounds....(previous high, 1980 — 105.7 million pounds).

Sharks — 23.3 million pounds....(previous high, 1979 — 22.6 million pounds).

Crabs — $296.6 million....(previous high, 1980 — $291.4 million).

Lobster, American — 37.5 million pounds and $86.5 million....(previous high, 1979 — 37.2 million pounds, and 1980 — $75.2 million).

Scallops, Calico — 14.6 million pounds....(previous high, 1976 — 2.3 million pounds).

Squid — 54.3 million pounds....(previous high, 1979 — 48.7 million pounds).

U.S. PRODUCTION OF PROCESSED FISHERY PRODUCTS

Value of canned fishery products — $2.2 billion....(previous high, 1980 — $1.9 billion).

Value of canned fishery products for human consumption — $2.0 billion....(previous high, 1980 — $1.8 billion).

Production of all fillets and steaks — 208.4 million pounds....(previous high, 1951 — 205.5 million pounds).

U.S. IMPORTS

Total value — $4.2 billion....(previous high, 1979 — $3.8 billion).

Value of edible fishery products — $3.0 billion....(previous high, 1980 — $2.7 billion).

Lobster, American — 40.3 million pounds (round weight)....(previous high, 1980 — 32.2 million pounds).

U.S. EXPORTS

Total value — $1.2 billion....(previous high, 1979 — $1.1 billion).

Edible fishery products — 669.3 million pounds....(previous high, 1980 — 573.9 million pounds).

Value of edible fishery products — $1.1 billion....(previous high, 1979 — $1.0 billion).

U.S. SUPPLY (DOMESTIC PRODUCTION PLUS IMPORTS)

All fillets and steaks — 622.5 million pounds....(previous high, 1979 — 614.7 million pounds).

Groundfish fillets and steaks — 331.7 million pounds....(previous high, 1979 — 327.5 million pounds).

Lobster, American — 77.8 million pounds (round weight)....(previous high, 1980 — 69.2 million pounds).

Scallop meats — 71.8 million pounds (edible weight)....(previous high, 1978 — 61.7 million pounds).

REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish Pacific cod, flounders, hake (Pacific whiting), ocean perch, Alaska pollock, and rockfishes were 244.9 million pounds valued at $48.6 million, up 18 percent in volume and 15 percent in value compared with 1980. Decreases in landings of ocean perch (20 percent), and hake (7 percent), were offset by increases in landings of Pacific cod (122 percent), Alaska pollock (24 percent), rockfishes (12 percent) and flounders (3 percent).

The foreign catch of trawl fish in the Pacific U.S. FCZ was 1.6 million metric tons, unchanged from 1980. About 81 percent of this catch was in the Eastern Bering Sea, 15 percent in the Gulf of Alaska, and the remaining 4 percent off Washington, Oregon, and California. Alaska pollock was the leading species caught (1.1 million metric tons), followed by Pacific flounders (187,590 metric tons), and Pacific cod (74,110 metric tons). Japan, South Korea, and Poland were the major fishing nations.

ANCHOVIES. U.S. landings of anchovies in 1981 were 126.6 million pounds, an increase of 19.7 million pounds (18 percent) compared with 1980. In 1981, 122.8 million pounds were used for industrial purposes, with 107.9 million pounds or 88 percent of the anchovies reduced to meal, oil, and solubles. Another 14.0 million pounds or 11 percent were used for bait, mostly live bait for sport fishing. There were 881,000 pounds used for pet food. Most of the anchovies were caught in purse seines, although some were taken with lampara nets.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 26.9 million pounds (round weight) valued at $21.5 million, up 7.7 million pounds and $4.7 million compared with 1980. The Pacific fishery accounted for 99 percent of the 1981 total. The average exvessel price per pound in 1981 was 80 cents compared with 88 cents in 1980.

HERRING, SEA. U.S. commercial landings of sea herring were 247.0 million pounds valued at $30.5 million in 1981, down 15 percent in volume and 32 percent in value compared with 1980. Landings of Atlantic sea herring were 139.1 million pounds valued at $7.6 million, down 24 percent in quantity and 26 percent in value from 1980. Landings of Pacific sea herring were 107.9 million pounds valued at $22.9 million, an increase of 839,000 pounds (1 percent) and a decrease of $11.7 million (34 percent) in value compared with 1980. The average exvessel price per pound of Pacific sea herring decreased from 32 cents in 1980 to 21 cents in 1981.

JACK MACKEREL. Landings of jack mackerel in California in 1981 were 31.0 million pounds valued at $2.8 million, a 30 percent decrease in quantity and value compared with 1980. The landings of jack mackerel have declined 3 of the past 4 years. In 1977, 110.2 million pounds were landed.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel in 1981 were 5.8 million pounds with an exvessel value of $820,000—67,000 pounds less than in 1980 but an increase of $4,000 in value. New Jersey was the leading State with landings of 3.2 million pounds (55 percent), followed by Massachusetts with 1.0 million pounds (18 percent). The average exvessel price per pound in 1980 and 1981 was 14 cents.

MACKEREL, PACIFIC. Landings of Pacific mackerel in 1981 were 85.0 million pounds valued at $7.6 million. Compared with 1980 the quantity and value increased 31 percent. Landings have increased significantly since 1977 when 10.2 million pounds were landed.

Prior to 1978, the State of California prohibited the landing of Pacific mackerel, except for an incidental take limited to 18 percent by weight for a trip. The reason for more Pacific mackerel landings in 1979, 1980, and 1981 was an increase in abundance and the removal of the State of California regulations.

MENHADEN. U.S. menhaden landings were 2.1 billion pounds valued at $81.3 million in 1981, down 391.2 million pounds (16 percent) in quantity and $30.7 million (27 percent) in value compared with 1980. Landings declined in the Atlantic States by 6 percent and in the Gulf States by 21 percent. About 99 percent of the total landings were reduced to meal, oil, and solubles; the rest was used for bait or for canned pet food.

Landings along the Atlantic Coast were 887.2 million pounds worth $33.6 million in 1981, a decrease of 6 percent in quantity and 22 percent in value compared with 1980. Of this amount, 863.5 million pounds were used for reduction in 1981, the remainder for bait and canned pet food.

Landings of Gulf menhaden were 1.2 billion pounds compared with the 1980 landings of 1.5 billion pounds. The 1981 landings were 33 percent less than the record year of 1978 when 1.8 billion pounds were landed. Gulf Coast landings in July and September were the highest during the year when 268.8 and 213.5 million pounds were landed.

NORTH ATLANTIC TRAWL FISH. North Atlantic groundfish landings in 1981 were 416.6 million pounds (188,969 metric tons) valued at $152.2 million, down 10 percent in quantity and up 4 percent in value compared to the 461.3 million pounds valued at $146.3 million landed in 1980. Fish included are: butterfish, Atlantic cod, cusk, flounders, haddock, red and white hake, Atlantic ocean perch, pollock, and whiting (silver hake). Of these species, flounders led in value, accounting for 45 percent of the total, cod second with 22 percent, and haddock third with 14 percent.

REVIEW

IMPORTANT SPECIES

Atlantic cod and haddock, managed under an FMP since 1977, have shown a marked increase in landings since 1976 when landings were 56.0 million and 12.8 million pounds respectively. In 1981 cod landings were 100.5 million pounds and haddock 55.3 million pounds. Yellowtail flounder have also been managed under an FMP since 1977, but landings have not shown a substantial increase. Yellowtail landings in 1976 were 38.0 million pounds and 34.1 million pounds in 1981.

Foreign catches in the North Atlantic FCZ in 1981 were 77,068 metric tons, a 12 percent increase compared with 68,527 metric tons in 1980. Canada was the leading country with 39 percent, Spain second with 26 percent, Italy third with 16 percent, and Japan fourth with 14 percent. The only other country fishing the area was Poland. Squid catches of 34,304 metric tons led all species caught (45 percent). Other species in order of significance were cod (12 percent), sea scallops (10 percent), haddock (8 percent), Atlantic mackerel (7 percent), and pollock (5 percent).

PACIFIC SALMON. U.S. commercial landings were 648.4 million pounds valued at $438.2 million, an increase of 34.6 million pounds (6 percent) and $86.0 million (24 percent) compared with 1980. The increase resulted primarily from higher landings of chum and red salmon in Alaska and pink salmon in Washington. Alaska accounted for 91 percent of the total landings; Washington, 7 percent; and Oregon and California 1 percent each. Landings of 1,000 pounds of silver salmon were made in the Great Lakes.

Alaska salmon landings in 1981 were 589.5 million pounds, up 22.4 million pounds (4 percent) from 1980. The 1981 landings were the largest since 1942. The value of Alaska salmon was $368.1 million in 1981, an increase of $81.5 million (28 percent) compared with 1980. Pink salmon landings of 236.8 million pounds in 1981 decreased by 16.7 million pounds (7 percent) from 1980. Landings of the other species increased from 1980 to 1981, with chinook salmon landings up 5.6 million pounds (48 percent) from 1980. Chum salmon landings were 93.1 million pounds, up 25 percent from 1980. Landings of red salmon (218.7 million pounds) and silver salmon (23.8 million pounds) increased 7 percent and 3 percent respectively compared with 1980.

Washington salmon landings in 1981 were 46.0 million pounds, an increase of 12.2 million pounds (36 percent) compared with 1980. The 1981 value of $45.9 million was an increase of $6.1 million (15 percent) from 1980. Pink salmon landings of 19.9 million pounds accounted for 43 percent of the landings in Washington in 1981. Red salmon landings of 7.5 million pounds were an increase of 4.3 million pounds over 1980. Landings of silver (6.8 million pounds) and chum (5.8 million pounds) salmon decreased 5.8 million pounds and 4.8 million pounds respectively. Chinook salmon landings decreased 1.5 million pounds, from 7.6 million pounds in 1980 to 6.0 million pounds in 1981.

Oregon salmon landings were 7.0 million pounds valued at $10.2 million, unchanged in quantity but a decrease of $2.4 million in value compared with 1980. Landings of pink salmon went from 1,000 pounds in 1980 to 373,000 pounds in 1981. Silver salmon landings increased 29 percent to 4.2 million pounds in 1981, while chinook salmon decreased 35 percent to 2.4 million pounds in 1981. Landings of chum salmon increased from 2,000 pounds in 1980 to 11,000 pounds in 1981.

California salmon landings increased from 5.9 million pounds in 1980 to 6.0 million pounds in 1981. The 1981 value ($14.0 million) increased 6 percent compared with 1980. Chinook salmon landings in 1981 were 5.5 million pounds compared with 5.6 million pounds in 1980, while silver salmon went from 300,000 pounds in 1980 to 482,000 pounds in 1981.

SABLEFISH. U.S. commercial landings of sablefish were 28.3 million pounds valued at $6.5 million in 1981. This was an increase of 6.2 million pounds (28 percent) and $1.1 million (21 percent) in value compared with 1980. The 1981 landings were 20.1 million pounds less than landings in 1979, the record year when 48.4 million pounds were landed. Landings in 1981 increased in California to 13.9 million pounds (67 percent) and in Washington to 5.6 million pounds (80 percent) compared with 1980. Landings declined in Oregon to 5.2 million pounds (12 percent) and in Alaska to 3.6 million pounds (24 percent) compared with 1980. The average exvessel price per pound in 1981 was 23 cents compared with 24 cents in 1980.

TUNA. Landings of tuna in 1981 by U.S. fishermen at ports in the 50 States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 489.9 million pounds valued at $285.6 million, down 2 percent in quantity but up 1 percent in value from 1980. The quantity landed was 10 percent below the average for the previous 5 years. The average exvessel price per pound for all species of tuna for 1981 was 58 cents, about the same as in 1980.

Bigeye landings in 1981 were 4.7 million pounds, down 2.3 million pounds (33 percent) from 1980. The average exvessel price per pound was 61 cents in 1981 compared to 58 cents in 1980.

Skipjack landings in 1981 were 200.3 million pounds, down 34.7 million pounds (15 percent) from 1980. The average exvessel price per pound in 1981 was 52 cents compared to 54 cents in 1980.

Yellowfin landings were 249.7 million pounds in 1981, up 18.1 million pounds (8 percent) from 1980. The average exvessel price in 1981 was 59 cents compared with 60 cents in 1980.

Bluefin landings were 4.8 million pounds in 1981, down 3.3 million pounds (41 percent) from 1980. The average exvessel price per pound was 79 cents in 1981 compared to 88 cents in 1980.

Almost 70 percent of the tuna landings were at ports in the continental United States (principally California, with 93 percent of continental landings).

REVIEW

IMPORTANT SPECIES

CLAMS. Landings of all species yielded 120.6 million pounds of meats worth $107.1 million in 1981. Compared with 1980, landings increased 25.3 million pounds (26 percent) and $16.9 million (19 percent) in value in 1981. The average exvessel price went from 95 cents in 1980 to 89 cents in 1981.

Surf clams yielded 46.1 million pounds of meats valued at $23.5 million, up 8.4 million pounds in quantity (22 percent) and $4.4 million in value (23 percent) compared with 1980. New Jersey was the leading State with 20.3 million pounds; followed by Maryland, 11.6 million; Virginia, 11.3 million; and New York, 2.3 million pounds. The average exvessel price per pound was 51 cents in 1981, the same as 1980.

The ocean quahog fishery produced 36.1 million pounds of meats valued at $10.2 million in 1981, an increase of 2.3 million pounds (7 percent) but down $3,000 in value compared with 1980. New Jersey was the leading producer in the United States with 20.8 million pounds of meats accounting for 58 percent of the total landings of ocean quahog. Maryland was second with 8.4 million pounds (23 percent), followed by Rhode Island, 7.0 million pounds (19 percent). The average exvessel price per pound of meat was 28 cents in 1981 compared with 30 cents in 1980.

The hard clam fishery produced 18.1 million pounds of meats valued at $51.2 million. This was an increase of 4.7 million pounds of meats (36 percent) and $7.1 million (16 percent) over 1980. Landings in the Middle Atlantic region (mostly New York) were 5.5 million pounds; Chesapeake, 5.1 million; New England, 5.0 million; South Atlantic, 1.8 million; and the Pacific, 584,000 pounds of meats. Average exvessel price per pound of meats in 1981 was $2.82 compared to $3.30 in 1980.

Soft clams yielded 8.1 million pounds of meats valued at $13.9 million. This was a decrease of 876,000 pounds (10 percent) and $1.5 million (10 percent) in value from 1980. Maine was the leading State with 5.3 million pounds (65 percent of the total landings), followed by Maryland with 1.6 million pounds of meats. The average exvessel price per pound of meats was $1.72 in 1981, the same as 1980.

CRABS. Landings of all species of crabs were 446.0 million pounds valued at $296.6 million, a decrease of 77.1 million pounds (15 percent) in quantity but up $5.2 million (2 percent) in value over 1980. Landings decreased for major species except hard blue crabs.

Hard blue crab landings were 195.1 million pounds valued at $46.4 million, an increase of 31.9 million pounds (20 percent) and $11.3 million (32 percent) compared with 1980. Hard blue crab landings in the Chesapeake States increased 50 percent from 1980 to 94.7 million pounds. Blue crab landings in the South Atlantic States were 60.5 million pounds, up 10 percent; Middle Atlantic, 2.5 million pounds, down 35 percent; and landings in the Gulf States, 37.4 million pounds, down 9 percent over 1980. The average exvessel price per pound of crabs in 1981 was 24 cents compared with 22 cents in 1980.

Dungeness crab landings were 35.6 million pounds worth $29.1 million, a decrease of 2.7 million pounds (7 percent) and an increase of $7.5 million (35 percent) compared with 1980. The average exvessel price per pound increased from 56 cents in 1980 to 82 cents in 1981. Alaska led with landings of 14.9 million pounds, up 152 percent from 1980. Landings in California increased 57 percent; Washington decreased 48 percent; and Oregon decreased 63 percent relative to 1980.

U.S. landings of king crabs were 88.1 million pounds, valued at $157.7 million. This harvest was down 97.6 million pounds (53 percent) from the record of 185.6 million pounds in 1980. The fishery in the Bering Sea decreased to 58.4 million pounds valued at $100.3 million, down 100.0 million pounds (63 percent) and $42.3 million (30 percent) compared to 1980. The exvessel price per pound reached $1.72 for 1981 compared with 90 cents in 1980. Landings in the Gulf of Alaska were 29.7 million pounds with an average exvessel price of $1.93 per pound compared with 27.2 million pounds landed in 1980 and valued at 96 cents per pound.

Snow (tanner) crab landings were 107.5 million pounds valued at $47.3 million--a decrease of 14.2 million pounds (12 percent) and $7.8 million (14 percent) in value from 1980. Landings taken in the Bering Sea of the smaller Chionoecetes opilio were 50.5 million pounds while C. bairdi landings were 30.4 million pounds. Landings of C. bairdi from the Gulf of Alaska were 26.6 million pounds, down 18.0 million pounds (40 percent) from 1980. The average exvessel price per pound for 1981 was 44 cents compared with 45 cents in 1980.

LOBSTER, AMERICAN. Landings of American lobster in 1981 were 37.5 million pounds valued at $86.5 million--up 542,000 pounds (1 percent) and $11.3 million (15 percent) compared with 1980. The average exvessel price per pound was $2.31 in 1981 compared with $2.04 in 1980. Landings in Maine, the principal producing State, were 22.3 million pounds, about 1 percent more than the previous year. Massachusetts landings of 9.8 million pounds increased by only 140,000 pounds from the previous year. Rhode Island landings of 2.2 million pounds decreased by 205,000 pounds compared with 1980.

REVIEW

IMPORTANT SPECIES

LOBSTER, SPINY. U.S. landings of spiny lobster were 6.6 million pounds valued at $19.4 million in 1981, down 242,000 pounds (4 percent) and up $4.6 million (31 percent) from 1980. The average exvessel price per pound was $2.93 compared with $2.16 in 1980. Florida landings accounted for 82 percent of the total landings and 69 percent of the value.

OYSTERS. U.S. landings in 1981 yielded 50.1 million pounds of meats valued at $68.6 million, an increase of 971,000 pounds (2 percent) in quantity and down $1.5 million (2 percent) in value compared with 1980. Chesapeake States led in production with 22.2 million pounds of meat, followed by the Gulf States with 17.1 million pounds. Landings increased in the Chesapeake States, the South Atlantic, and the Gulf and decreased in New England, the Middle Atlantic, and the Pacific.

SHRIMP. U.S. landings were 354.6 million pounds (heads-on) valued at $463.4 million--up 4 percent in volume and 15 percent in value compared with 1980. The average exvessel price per pound for 1981 was $1.31 compared to $1.19 in 1980. Shrimp landings increased in the New England and Gulf States and declined in the South Atlantic and Pacific States.

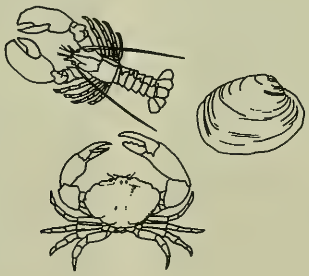
Gulf landings of 268.2 million pounds were up 29 percent over 1980. Louisiana led all States with 110.2 million pounds (up 24 percent), followed by Texas, 95.7 million pounds (up 29 percent).

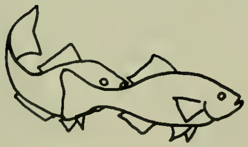
SCALLOPS. U.S. landings of all species yielded 45.6 million pounds of meats worth $127.6 million in 1981--up 15.9 million pounds (53 percent) in quantity and $13.2 million (12 percent) in value from 1980. The average exvessel price per pound in 1981 was $2.80 compared to $3.85 in 1980.

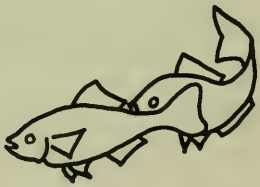
U.S. bay scallop landings in 1981 of 670,000 pounds of meats valued at $2.4 million were down 298,000 pounds (31 percent) in quantity and $1.5 million (38 percent) in value compared with 1980. Massachusetts was the leading State in 1981 with landings of 215,000 pounds. The average exvessel price per pound for bay scallops was $3.62 in 1981 compared to $4.02 in 1980.

Sea scallop landings were 30.3 million pounds of meats valued at $111.2 million in 1981--up 1.5 million pounds (5 percent) in quantity and an increase in value of $787,000 (1 percent) compared with 1980. Average exvessel price per pound in 1981 was $3.67 compared with $3.84 in 1980.

Calico scallop landings were 14.6 million pounds of meats valued at $13.9 million in 1981. No landings were recorded in 1980. Average exvessel price per pound was 95 cents.







REVIEW

PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION. U.S. per capita consumption of fish and shellfish was 13.0 pounds (edible meat) in 1981. This was 0.2 pound more than the 12.8 pounds consumed in 1980.

Consumption of canned fishery products in 1981, at 4.8 pounds per person, rose 0.3 pound due mostly to an increase in the packs of tuna and sardines. Tuna at 3.1 pounds per person registered a 0.2 pound increase and sardines at 0.4 pound per person registered a 0.1 pound increase.

Per capita consumption of fresh and frozen fish and shellfish in 1981 was 7.8 pounds, down 0.2 pound from 1980. Per capita consumption of clams was 0.4 pound, up 0.2 pound, and scallop consumption was 0.3 pound, up 0.1 pound. The increase in fresh and frozen shellfish consumption was offset by a decline in the fresh and frozen fish category, decreasing from 5.5 pounds in 1980 to 5.0 pounds in 1981. Lower stocks at the beginning of the year and higher exports accounted for most of the decrease.

Per capita consumption of cured fishery products was 0.4 pound, up 0.1 pound over 1980.

Per capita data for fish and shellfish have been revised back to 1970 to reflect the results of the 1980 census.

In addition to consumption of commercially caught fish and shellfish, recreational fishermen catch and consume an estimated 3 or 4 pounds of edible meat per person.

PER CAPITA USE. The per capita use of all fishery products (edible and industrial) was 49.4 pounds (round weight) in 1981, down 0.5 pounds (1 percent) from 1980. One reason for the decrease was that landings were down 505.3 million pounds. The per capita use of edible fishery products was up 2 percent and industrial use was down 9 percent.

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1981, the U.S. production of raw (uncooked) fish fillets and steaks set records in quantity and value at 208.4 million pounds and $304.5 million. This was 6.2 million pounds and $43.3 million more than the 1980 production and exceeded by 2.9 million pounds the previous record production established in 1951. Flounder fillets led all species with 53.8 million pounds or 26 percent of the total. Production of groundfish fillets and steaks (cods, cusk, haddock, hake, Atlantic ocean perch, and Atlantic pollock) was 74.5 million pounds in 1981 compared with 66.7 million pounds produced in 1980.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 405.4 million pounds valued at $462.6 million in 1981, compared with a 1980 production of 432.7 million pounds, valued at $477.2 million. The production of all portion items decreased in 1981 — batter coated cooked by 9.8 million pounds, unbreaded portions by 9.4 million, breaded raw by 8.5 million, and breaded cooked by 3.1 million pounds.

The 1981 production of fish sticks of 92.0 million pounds valued at $99.4 million reflects an increase of 3.6 million pounds in production and $10.6 million in value compared with 1980. The production of breaded raw and breaded cooked fish stick production increased in 1981; 372,000 pounds for breaded raw and 4.2 million pounds for breaded cooked. The production of batter coated fish sticks declined slightly to 970,000 pounds compared with the 1980 production.

BREADED SHRIMP. The 36 plants reporting to NMFS on a quarterly basis during 1981 produced 88.1 million pounds valued at $254.5 million. In 1980, 35 plants reporting on a quarterly basis produced 82.0 million pounds valued at $251.0 million. The additional firms that report on an annual basis produced 1.2 million pounds valued at $3.3 million in 1980. Data on the 1981 production of the plants that only report on an annual basis are not yet available.

FROZEN FISHERY TRADE. In 1981, stocks of frozen fishery products in cold storage were at a low of 293.6 million pounds on May 31 and a high of 388.0 million pounds on January 31. Cold storage holdings of shrimp products, which were 79.1 million pounds on January 31, dropped to 46.0 million pounds by May 31, and ended the year at 64.9 million pounds on December 31. Fish block holdings reached a high of 56.0 million pounds on July 31. By the end of 1981, stocks of fish blocks had declined to 43.8 million pounds. King crab holdings were 32.4 million pounds on January 31, but reached a low of 8.6 million pounds on August 31, 1981.

REVIEW
PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The 1981 pack of canned fishery products in the 50 States, American Samoa, and Puerto Rico was 56.6 million standard cases (1.6 billion pounds) valued at a record $2.2 billion--increases of 2.9 million standard cases (84.7 million pounds) and $230.4 million compared with the 1980 pack. The 1981 pack included 45.8 million standard cases (1.1 billion pounds) valued at a record $2.0 billion for human consumption, and 10.9 million standard cases (521.6 million pounds) valued at $213.4 million for bait and animal food. The packs of gefiltefish, salmon, Maine sardines, tuna, tunalike fish, clams and clam products, and squid, together with the packs for bait and animal food increased in 1981, but the remaining packs of fish and shellfish declined.

CANNED SALMON. The 1981 U.S. pack of natural Pacific salmon reached 4.5 million standard cases, (217.7 million pounds) valued at $415.9 million, compared with 4.2 million standard cases (201.7 million pounds) valued at $403.8 million packed a year earlier. For the first time since 1945, the Alaska canned salmon pack topped 4.5 million cases, led by 1.3 million cases of red or sockeye, and 2.5 million standard cases of pinks. Alaskan plants accounted for more than 99 percent of the quantity and value of the salmon pack. The Alaskan catch of more than 111 million fish was the third largest catch in history. An even larger catch is predicted for 1982 when an estimated 135 million fish will be harvested, making 1982 the largest salmon year in history. The larger catches of recent years can be attributed to mild winters and warmer sea temperatures allowing a higher than normal juvenile survival rate.

CANNED SARDINES. The pack of Maine sardines (sea herring) was 1.6 million standard cases valued at $54.9 million, increases of 784,400 standard cases and $23.3 million compared with 1980. An additional pack of herring and herring specialties of 85,800 standard cases valued at $6.3 million was packed in 1981—50,100 standard cases and $4.3 million less than the 1980 pack. The decline in the pack of herring specialties can be attributed to smaller fish being utilized in the Maine sardine pack.

CANNED TUNA. The 1981 U.S. pack of tuna was 32.4 million standard cases, (639.0 million pounds) valued at $1.3 billion. This was 1.9 million standard cases (37.0 million pounds) and $138.2 million more than the 1980 pack. The pack of albacore tuna was 6.0 million standard cases in 1981—524,000 standard cases more than the 5.5 million standard cases produced in 1980. Albacore tuna was 19 percent of the tuna pack in 1981. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 26.4 million standard cases--1.4 million standard cases more than the 25.0 million standard cases packed in 1980. Plants in the United States packed 44 percent of the total; plants in American Samoa, Hawaii, and Puerto Rico packed the rest. About 31 percent of the total U.S. supply of canned tuna was packed from U.S.-caught fish, and 59 percent from imported fish. Imports of canned tuna made up the remaining 10 percent.

CANNED CLAMS. The U.S. pack of clams (whole, minced, chowder, and juice) was 3.1 million standard cases valued at a record $68.7 million — 109,500 standard cases and $2.4 million more than the pack in 1980. The 1981 pack of whole and minced clams of 791,700 standard cases, (61,600 standard cases more than the 1980 pack), accounted for 26 percent of the total clam pack in 1981. Clam chowder and clam juice (2.3 million standard cases) made up the remaining 1981 pack.

CANNED SHRIMP. The 1981 U.S. pack of natural shrimp was 1.8 million standard cases valued at $59.2 million, 515,000 standard cases and $11.3 million less than the 1980 pack. Plants in Louisiana and Mississippi packed 1.1 million standard cases, about 700,000 standard cases less than the previous year, while the pack produced in Alaska and Washington increased.

OTHER CANNED ITEMS. The U.S. pack of mackerel was 809,300 standard cases valued at $11.2 million in 1981, 40,500 standard cases and $354,000 less than the previous year. The pack of tunalike fish (bonito) in 1981 was 262,800 standard cases valued at $6.2 million, compared with 224,200 standard cases, valued at $5.5 million a year earlier. Although more plants packed in 1981 compared to 1980, the natural pack of oysters continued to decline. Just over 63,000 standard cases valued at $1.2 million were packed. In 1981 the pack of pet food (10 pounds of fish per standard case of 48 one-pound cans) was 10.9 million standard cases valued at $211.6 million, a increase of 302,300 standard cases and $67.6 million compared with the pack in 1980. The larger pack of natural tuna in 1981 is reflected in the larger pack of pet food, as approximately 49 percent of the pack is represented by tuna.

REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The 1981 value of industrial fishery products produced in the 50 States, American Samoa, and Puerto Rico was $220.3 million, $49.3 million less than the record in 1980. In terms of value, the leading States were Louisiana ($69.2 million), Maine ($39.2 million), and Virginia ($21.9 million).

FISH MEAL AND SCRAP. Domestic production in 1981 (including shellfish meal) was 318,431 short tons, 43,491 short tons less than the production of 361,922 short tons produced in 1980. Menhaden meal production (230,824 short tons) was 40,357 short tons less than the production of 271,181 short tons produced in 1980, but still amounted to nearly 73 percent of all the domestic fish and shellfish meal produced. The production of anchovy meal (10,230 short tons), tuna and mackerel meal (47,179 short tons), and shellfish meal (8,294 short tons) were up from the 1980 production by 2,396 short tons, 160 short tons, and 1,699 short tons respectively. Unclassified meal (21,904 short tons) consisting mainly of alewives, carp, sea herring, and unclassified fish measured a decrease of 7,389 short tons compared to the 1980 production of 29,293 short tons.

FISH SOLUBLES. Domestic production of fish solubles in 1981 (128,621 short tons) was 5,061 short tons tons less than the 1980 production. Menhaden solubles (99,739 short tons) accounted for more than 77 percent of the total production.

FISH OILS. The 1981 domestic production of fish oils was 184.3 million pounds--128.2 million pounds less than the 1980 record production of 312.5 million pounds. Menhaden oil production of 170.0 million pounds was 121.4 million pounds less than the 1980 production and comprised 92 percent of all fish oils produced. Tuna and mackerel oil production (4.5 million pounds) increased in 1981 by 394,000 pounds, but anchovy oil (1.7 million pounds) declined by 568,000 pounds. The production of unclassified oil (8.1 million pounds) was 6.6 million pounds less than the 1980 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, shark leathers, and mussel shell buttons were valued at $53.6 million in 1981, compared with $63.5 million in 1980.

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. Total U.S. import value of edible and nonedible fishery products was a record $4,173 million in 1981, an increase of 14 percent compared with 1980. The value of U.S. imports of edible fishery products in 1981 was a record $3,034 million, $348 million higher than the previous record established in 1980. The quantity of edible imports in 1981 reached 2,272 million pounds, 127 million pounds more than 1980 but 144 million pounds less than the record imports of 2,416 million pounds in 1973. The increase in value for edible imports was due mainly to higher prices for nearly all imported products.

Quantities in 1981 were higher than the previous year for imports of regular and minced blocks; fillets of groundfish and Atlantic ocean perch; fillets of flounders and other flatfishes (except turbot); shrimp; scallops; canned sardines not in oil; tuna in brine; oysters and oyster juice; and cured fishery products. Edible imports in 1981 consisted of 1,957 million pounds of fresh and frozen products valued at $2,582 million, 235 million pounds of canned products valued at $359 million, 73 million pounds of cured products valued at $81 million, and 7 million pounds of other products valued at $12 million.

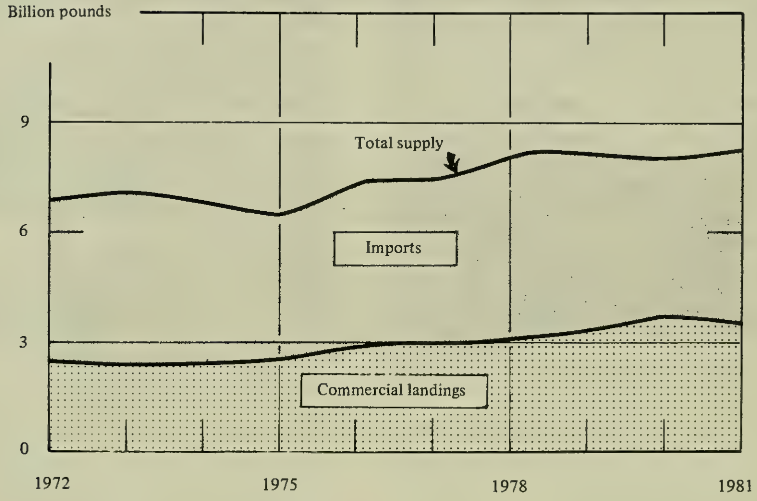
Nonedible imports were valued at $1,140 million in 1981. This value was $3 million less than the record $1,143 million established in 1979 but an increase of 18 percent from 1980.

EXPORTS. Total U.S. exports of edible and nonedible fishery products of domestic origin were a record $1.157 million in 1981, an increase of 15 percent from 1980. U.S. exports of edible fishery products of domestic origin set records in quantity and value in 1981 of 669 million pounds and $1,073 million, compared to the 1980 edible exports of 574 million pounds and $904 million. Exports of fresh and frozen items (principally salmon) were 516 million pounds valued at $744 million, canned items 101 million pounds valued at $176 million, and cured items 46 million pounds valued at $146 million.

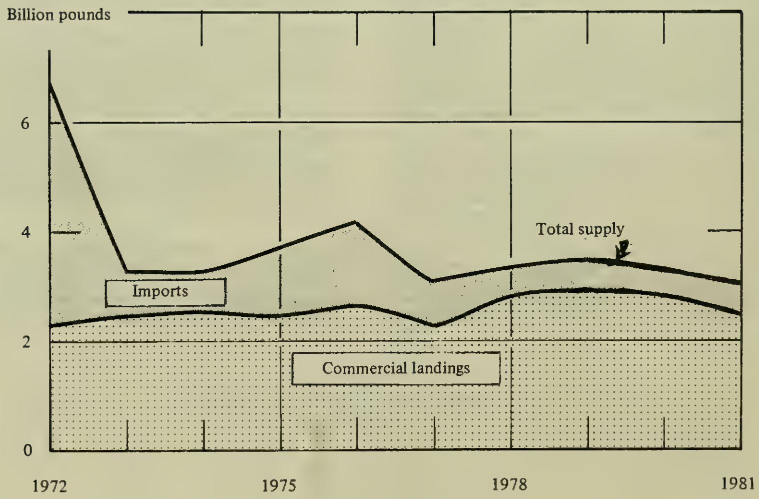
Exports of nonedible products were valued at $84.2 million in 1981, $17.6 million less than the record year 1980. The decline in value of exports of nonedible products in 1981 can be attributed to smaller shipments of fish and marine animal oils (principally menhaden) and fish meal.

U.S. COMMERCIAL LANDINGS

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS, 1972-81
(Round weight)



U.S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1972-81
(Round weight)



U.S. COMMERCIAL LANDINGS, BY SPECIES, 1980 AND 1981 (1)

Species	1980		1981		5-year average (1977-81)
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Alewives:					
Atlantic and Gulf . . .	10,985	779	8,341	671	11,106
Great Lakes	17,523	280	15,479	264	27,680
Anchovies	106,942	8,712	126,609	4,809	123,653
Bluefish.	15,676	2,426	16,659	3,234	13,685
Bonito.	14,686	2,881	17,290	4,686	13,911
Butterfish.	11,568	3,848	7,785	2,646	7,306
Cod:					
Atlantic.	118,245	31,883	100,463	33,081	96,066
Pacific	19,672	6,069	43,620	9,696	19,466
Croaker	28,473	6,725	18,066	6,208	28,388
Cusk.	4,297	872	4,031	975	3,635
Flounders:					
Atlantic and Gulf:					
Blackback	36,008	12,595	40,943	17,099	32,399
Fluke	34,752	18,010	23,830	16,817	25,511
Yellowtail.	42,619	19,855	34,062	16,834	34,711
Other	43,187	16,592	40,182	18,363	41,710
Pacific	60,354	15,436	62,036	16,779	61,186
Total	216,920	82,488	201,053	85,892	195,517
Groupers.	8,682	7,804	12,470	13,000	8,559
Haddock	55,188	21,424	55,324	22,014	44,062
Hake:					
Pacific (whiting) . . .	12,021	401	11,230	355	12,974
Red	5,597	677	5,338	900	5,336
White	10,428	1,748	12,177	2,262	10,658
Halibut	19,153	16,823	26,890	21,498	20,559
Herring, sea:					
Atlantic.	183,993	10,363	139,114	7,620	137,880
Pacific	107,076	34,592	107,915	22,921	73,594
Jack mackerel	44,390	3,995	31,026	2,792	57,762
Lingcod	8,129	2,290	7,532	1,758	7,387
Mackerel:					
Atlantic.	5,913	816	5,846	820	4,557
King.	7,035	5,361	7,223	6,221	6,621
Pacific	64,668	5,820	84,954	7,646	48,687
Spanish	11,968	3,137	6,167	1,954	8,781
Menhaden:					
Atlantic.	948,859	42,883	887,220	33,576	863,685
Gulf.	1,547,790	69,129	1,218,189	47,734	1,455,848
Total	2,496,649	112,012	2,105,409	81,310	2,319,533
Mullet.	37,360	7,153	36,657	8,133	30,722
Ocean perch:					
Atlantic.	24,201	5,548	18,591	5,262	29,487
Pacific	6,771	1,023	5,400	905	6,109
Pollock:					
Atlantic.	39,652	7,172	37,332	8,536	36,071
Alaska.	3,107	245	3,839	572	3,435
Rockfishes.	105,735	19,060	118,785	20,328	79,090
Sablefish	22,122	5,396	28,314	6,525	30,688
Salmon, Pacific:					
Chinook or king	28,533	47,453	31,071	56,733	31,013
Chum or keta.	84,916	39,640	98,880	44,423	67,493

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1980 AND 1981 (1) - Continued

Species	1980		1981		5-year average (1977-81)
Fish - continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Salmon, Pacific - cont.:					
Pink	253,541	90,757	257,106	111,291	211,599
Red or sockeye	207,551	131,354	226,173	192,513	162,618
Silver or coho	39,270	43,073	35,210	33,287	34,977
Total.	613,811	352,277	648,440	438,247	507,700
Scup or porgy.	20,027	7,947	19,994	7,850	20,230
Sea bass:					
Black.	3,953	2,688	3,732	2,757	4,611
White.	879	1,537	768	1,057	882
Sea trout:					
Gray	35,070	7,324	26,376	9,078	26,427
Spotted.	4,379	3,171	3,972	3,359	4,152
White.	1,196	265	1,145	279	1,121
Sharks:					
Dogfish.	16,759	1,416	18,394	1,473	13,878
Other.	4,486	1,634	4,885	1,923	3,140
Snapper:					
Red.	4,949	7,839	5,827	10,105	5,541
Other.	3,106	3,913	3,373	4,519	2,811
Striped bass	4,536	4,902	3,863	5,272	4,306
Swordfish.	9,175	17,764	8,981	20,350	7,519
Tilefish	(2)	(2)	8,595	7,544	(2)
Tuna:					
Albacore	15,872	12,717	29,329	26,715	25,923
Bigeye	2,277	1,378	2,766	1,731	2,108
Black skipjack	-	-	40	6	(2)
Bluefin.	7,991	7,086	4,774	3,787	11,664
Little	535	100	246	75	235
Skipjack	179,443	96,155	133,316	70,519	135,172
Yellowfin.	192,182	115,096	170,269	102,979	195,821
Unclassified	1,132	593	409	255	901
Total.	399,432	233,125	341,149	206,067	371,833
Warsaw	112	62	296	180	177
Whiting.	35,571	6,113	36,544	7,379	40,753
Wolffish	1,983	276	1,633	283	1,518
Other marine finfishes:					
Atlantic and Gulf. . .	175,941	36,726	137,784	28,636	-
Pacific.	36,887	11,435	15,201	7,281	-
Other freshwater finfishes	111,337	34,671	108,074	36,571	-
Total Fish	5,328,414	1,154,908	4,825,955	1,195,704	-
Shellfish et al.					
Clams:					
Hard	13,370	44,068	18,118	51,169	14,455
Ocean quahog	33,832	10,187	36,107	10,184	29,235
Soft	8,948	15,391	8,072	13,906	9,276
Surf	37,737	19,107	46,100	23,466	41,804
Other.	1,482	1,470	12,234	8,420	3,614
Total.	95,369	90,223	120,631	107,145	98,384
Crabs:					
Blue, hard	163,206	35,167	195,114	46,441	155,648
Dungeness.	38,278	21,613	35,576	29,085	42,434
King	185,624	168,694	88,054	157,667	131,591
Snow (tanner).	121,674	55,161	107,474	47,348	117,675
Other.	14,329	10,715	19,777	16,033	13,846
Total.	523,111	291,350	445,995	296,574	461,194

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1980 AND 1981 (1) - Continued

Species	1980		1981		5-year average (1977-81)
Shellfish et al. - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Lobsters:					
American.	36,952	75,233	37,494	86,506	35,551
Spiny	6,861	14,801	6,619	19,422	5,979
Oysters	49,081	70,075	50,052	68,553	48,845
Scallops:					
Bay	968	3,894	670	2,427	1,297
Calico.	-	-	14,641	13,907	3,513
Sea	28,752	110,429	30,277	111,216	29,297
Shrimp:					
New England	731	477	2,271	1,438	984
South Atlantic.	32,996	57,399	16,514	32,469	23,988
Gulf.	208,280	302,077	268,190	401,400	239,453
Pacific	97,697	42,741	67,496	27,888	121,504
Other	3	3	95	238	24
Total	339,707	402,697	354,566	463,433	385,953
Squid:					
Atlantic.	9,794	3,177	6,579	2,343	7,794
Pacific	25,202	2,241	47,703	4,870	33,002
Other shellfish	38,143	18,174	35,887	15,639	-
Total shellfish et al. .	1,153,940	1,082,294	1,151,114	1,192,035	-
Grand total	6,482,354	2,237,202	5,977,069	2,387,739	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). (2) Data not available.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and others ports outside the 50 States, or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 8. Data do not include production of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS, BY REGIONS, 1980 AND 1981 (1)

Region	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England.	788,089	327,299	696,997	355,850
Middle Atlantic.	244,034	96,594	227,627	95,275
Chesapeake	717,086	129,651	603,034	125,764
South Atlantic	473,457	148,377	543,006	138,498
Gulf	1,979,115	463,205	1,699,821	553,730
Pacific Coast and Alaska . . .	2,140,278	1,025,255	2,069,635	1,063,449
Great Lakes.	44,032	14,021	38,820	11,739
Hawaii	11,435	11,870	13,396	18,338
Other.	84,828	20,930	84,733	25,096
Total	6,482,354	2,237,202	5,977,069	2,387,739

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other parts outside the 50 States, or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 8. Data do not include products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS, BY STATES, 1980 AND 1981 (1)

State	1980		1981		Record landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama.	26,605	25,575	33,677	44,148	1973	39,749
Alaska	1,053,896	560,603	975,245	639,797	1980	1,053,896
Arkansas	18,306	4,923	19,060	6,306	-	(2)
California	804,276	323,393	775,171	275,196	1936	1,760,183
Connecticut.	5,198	4,675	1,272	2,128	1930	88,012
Delaware	4,074	1,969	3,030	1,662	1953	367,500
Florida.	191,470	124,834	215,281	172,726	1938	241,443
Georgia.	19,427	20,061	18,589	13,158	1927	47,607
Hawaii	11,435	11,870	13,396	18,338	1954	20,610
Idaho.	120	20	496	28	-	(2)
Illinois	4,587	1,103	4,453	994	-	(2)
Indiana.	127	112	185	129	-	(2)
Iowa	3,741	900	3,741	945	-	(2)
Kansas	170	39	170	41	-	(2)
Louisiana.	1,423,374	177,994	1,168,597	193,549	1978	1,673,922
Maine.	244,686	92,697	238,107	103,945	1950	356,266
Maryland	79,571	44,658	115,115	56,640	1890	141,607
Massachusetts.	438,382	178,602	369,640	196,854	1948	649,696
Michigan	10,455	4,822	12,823	5,647	1930	35,580
Minnesota.	10,317	2,128	8,236	1,960	-	(2)
Mississippi.	337,765	26,601	264,891	30,159	1971	400,576
Missouri	970	220	970	231	-	(2)
Nebraska	111	28	111	29	-	(2)
New Hampshire.	19,050	5,182	7,690	4,162	-	(2)
New Jersey	200,634	49,879	188,396	48,283	1956	540,060
New York	39,725	45,058	36,522	45,555	1880	335,000
North Carolina	356,193	68,784	432,006	57,520	1981	432,006
North Dakota	727	111	727	117	-	(2)
Ohio	10,490	3,351	7,577	2,198	1936	31,083
Oregon	126,316	55,748	134,626	52,461	1978	134,657
Pennsylvania	347	312	343	189	-	(2)
Rhode Island	80,773	46,143	80,288	48,761	1889	128,056
South Carolina	21,183	20,448	16,232	14,161	1965	26,611
South Dakota	2,259	340	2,259	357	-	(2)
Texas.	98,478	153,880	113,108	174,787	1960	237,684
Virginia	637,515	84,993	487,919	69,124	1972	666,180
Washington	155,790	85,511	184,593	95,995	1941	197,253
West Virginia.	31	15	31	16	-	(2)
Wisconsin.	30,745	5,901	38,231	5,502	-	(2)
Other.	13,035	3,719	4,265	3,941	-	(2)
Total	6,482,354	2,237,202	5,977,069	2,387,739	1980	6,482,354

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

(2) Not determined.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 8. Data do not include production of aquaculture, except oysters and clams.

COMMERICAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1978-81

Port	Quantity 1978	1979	1980	1981
	---------Million pounds-------			
Cameron, La.	606.0	593.1	479.8	447.6
Los Angeles Area, Calif. (1)	312.8	378.2	380.1	373.6
Empire-Venice, La.	292.8	278.9	275.4	221.5
Pascagoula-Moss Point, Miss.	334.8	283.8	291.9	220.5
Dulac-Chauvin, La.	300.2	246.3	265.8	203.9
Kodiak, Alaska	177.4	150.5	207.4	193.2
Beaufort-Morehead City, N.C.	108.7	218.5	171.5	177.0
Gloucester, Mass.	185.4	160.2	210.0	166.9
San Diego, Calif.	168.3	156.6	199.1	149.7
New Bedford, Mass.	71.9	86.0	99.6	76.2
Dutch Harbor-Unalaska, Alaska	125.8	136.8	136.5	73.0
Ketchikan, Alaska	55.7	22.1	17.3	52.4
Monterey, Calif.	(2)	(2)	(2)	49.8
Port Hueneme, Oxnard, and Ventura, Calif.	(2)	(2)	(2)	48.1
Newport, Oreg.	33.1	36.0	36.4	46.7
Astoria, Oreg.	45.6	40.4	39.8	44.8
Rockland, Maine	40.1	41.8	56.0	44.7
Cape May-Wildwood, N.J.	47.7	58.3	51.5	42.7
Pt. Judith, R.I.	55.3	54.3	42.9	41.7
Akutan, Alaska	17.2	38.2	58.9	40.6
Portland, Maine	45.9	59.6	54.9	39.9
Petersburg, Alaska	31.0	31.9	32.3	39.9
Wanchese-Stumpy Point, N.C.	20.5	34.6	39.5	39.0
Coos Bay-Charleston, Oreg.	27.1	23.5	27.0	36.5
San Francisco Area, Calif.	(2)	(2)	(2)	35.7
Eureka, Calif.	44.4	32.1	34.5	35.0
Hampton Roads Area, Va. (3)	31.2	27.2	23.8	29.1
Brownsville-Port Isabel, Tex.	24.0	22.0	21.6	28.9
Boston, Mass.	27.3	30.3	34.4	28.4
Bellingham, Wash.	38.0	40.0	40.0	27.0
Bayou La Batre, Ala.	22.2	21.8	19.9	25.1
Seattle, Wash.	16.3	16.5	16.0	25.0
Aransas Pass-Rockport, Tex.	23.0	19.0	22.1	24.4
Westport, Wash.	30.0	25.0	23.0	24.0
Ocean City, Md.	14.4	18.4	22.3	23.4
Provincetown, Mass.	19.9	23.4	25.8	19.3
Golden Meadow-Leeville, La	22.1	15.6	15.4	18.5
Atlantic City, N.J.	(2)	(2)	(2)	18.1
Key West, Fla.	15.0	16.5	15.4	18.0
Oriental-Vandemere, N.C.	(2)	19.5	19.8	17.1
Cape Canaveral, Fla.	(2)	(2)	(2)	17.0
Ilwaco, Wash.	(2)	(2)	(2)	16.8
Fort Bragg, Calif.	(2)	(2)	(2)	15.7
Crescent City, Calif.	(2)	(2)	(2)	15.2
Fort Myers, Fla.	15.2	15.9	13.5	15.0
Freeport, Tex.	16.0	8.0	10.1	14.9
Lafitte-Barataria, La.	13.1	10.4	11.1	14.7
Santa Barbara, Calif.	(2)	(2)	(2)	14.1
Apalachicola, Fla.	12.4	10.4	11.6	12.0
Delcambre, La.	(2)	(2)	8.6	11.0
Point Pleasant, N.J.	15.7	12.8	11.1	10.9
Anacortes, Wash.	(2)	(2)	(2)	9.5
Chincoteague, Va.	13.0	12.3	15.9	9.0
Galveston, Tex.	(2)	(2)	(2)	8.1
Blaine, Wash.	10.0	10.5	10.0	8.1
Brookings, Oreg.	10.7	9.8	9.5	7.6
Cape Charles-Oyster, Va.	10.8	9.7	8.1	7.5
Grand Isle, La.	(2)	(2)	(2)	7.1
Bon Secour-Gulf Shores, Ala.	(2)	(2)	(2)	7.0
Darien-Bellville, Ga.	(2)	9.0	8.2	6.2

Port	Value 1978	1979	1980	1981
	---------Million dollars-------			
Kodiak, Alaska	92.6	73.4	84.6	*132.9
Los Angeles Area, Calif. (1)	92.1	89.3	121.9	110.5
San Diego, Calif.	69.8	62.7	110.6	83.0
New Bedford, Mass.	54.6	67.4	71.3	77.9
Dutch Harbor-Unalaska, Alaska	99.7	92.7	91.3	57.6
Dulac-Chauvin, La.	46.7	41.5	50.0	51.5
Brownsville-Port Isabel, Tex.	43.0	50.0	42.2	48.4
Gloucester, Mass.	28.9	29.7	34.7	45.1
Aransas Pass-Rockport, Tex.	39.0	40.0	40.2	41.0
Bayou La Batre, Ala.	25.1	34.9	23.7	31.4
Empire-Venice, La.	26.4	28.8	31.0	30.5
Cameron, La.	34.2	34.3	33.3	29.9
Akutan, Alaska	21.2	28.2	42.8	29.2
Ketchikan, Alaska	26.4	16.4	8.7	28.7
Key West, Fla.	22.4	25.9	18.3	27.0
Freeport, Tex.	28.0	25.0	19.9	26.8
Newport, Oreg.	10.6	12.6	13.7	25.0
Hampton Roads Area, Va. (3)	24.3	31.1	27.5	22.8
Petersburg, Alaska	17.5	23.7	17.0	22.0
Lafitte-Barataria, La.	11.5	16.6	14.8	20.8
Cape May-Wildwood, N.J.	25.1	32.2	26.9	20.5
Golden Meadow-Leeville, La.	19.1	22.5	12.2	19.9
Delcambre, La.	16.7	14.8	13.3	18.8
Coos Bay-Charleston, Oreg.	9.2	8.2	13.5	18.2
San Francisco Area, Calif.	(2)	(2)	(2)	18.0
Fort Myers, Fla.	13.1	17.8	10.9	18.0
Beaufort-Morehead City, N.C.	6.2	22.7	22.5	17.2
Portland, Maine.	7.5	10.1	13.6	17.0
Pascagoula-Moss Point, Miss.	19.4	18.1	18.9	16.8
Cape Canaveral, Fla.	(2)	(2)	(2)	15.9
Seattle, Wash.	6.3	6.6	6.0	15.0
Astoria, Oreg.	20.1	18.2	13.7	15.0
Eureka, Calif.	19.5	14.3	11.0	13.5
Rockland, Maine	(2)	(2)	8.4	13.4
Galveston, Tex.	(2)	(2)	(2)	13.3
Point Judith, R.I.	9.5	11.0	11.5	13.2
Wanchese-Stumpy Point, N.C.	8.5	13.0	13.0	12.7
Boston, Mass.	8.1	10.7	12.3	12.4
Apalachicola, Fla.	13.3	10.1	11.3	12.3
Bellingham, Wash.	15.3	16.8	15.2	12.0
Bon Secour-Gulf Shores, Ala.	10.0	16.0	7.7	11.6
Ocean City, Md.	6.9	8.2	9.9	10.5
Monterey, Calif.	(2)	(2)	(2)	10.4
Westport, Wash.	12.5	10.8	11.6	10.0
Provincetown, Mass.	9.1	10.3	10.4	8.5
Crescent City, Calif.	(2)	(2)	(2)	8.2
Port Arthur-Sabine, Tex.	(2)	(2)	(2)	8.2
Atlantic City, N.J.	(2)	(2)	(2)	7.9
Grand Isle, La.	(2)	(2)	(2)	7.8
Anacortes, Wash.	(2)	6.1	6.4	7.2
Oriental-Vandemere, N.C.	(2)	6.6	9.1	6.5
Fort Bragg, Calif.	(2)	(2)	(2)	6.3
Santa Barbara, Calif.	(2)	(2)	(2)	5.9
Ilwaco, Wash.	(2)	(2)	(2)	5.8
Chincoteague, Va.	6.1	6.5	8.0	5.1
Point Pleasant, N.J.	5.9	6.8	5.0	4.7
Darien-Bellville, Ga.	(2)	8.7	7.5	4.6
Port Hueneme, Oxnard, and Ventura, Calif.	(2)	(2)	(2)	4.6
Brookings, Oreg.	(2)	(2)	3.8	3.8
Blaine, Wash.	(2)	(2)	4.0	3.6

(1) Previously called San Pedro, Calif. (2) Not available. (3) Previously called Hampton-Norfolk, Va.

*Record. Record quantity was 848.2 million lb landed in San Pedro, Calif., in 1960.

Note:--Data for some ports are estimated. To avoid disclosure of private enterprise, the following ports were not included: Fernandina Beach, Fla.; Intercoastal City and Morgan City, La.; Chatham and Sandwich, Mass.; Biloxi, Miss.; Port Monmouth-Belford, N.J.; Southport-Calabash, N.C.; Newport, R.I.; and Reedville, Va.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1972-81 (1)

Year	Landings for human food		Landings for industrial products (2)		Total	
	Million pounds	Million dollars	Million pounds	Million dollars	Million pounds	Million dollars
1972	2,435	702	2,371	46	4,806	748
1973	2,398	836	2,460	101	4,858	937
1974	2,496	844	2,471	88	4,967	932
1975	2,465	904	2,412	73	4,877	977
1976	2,775	1,257	2,613	92	5,388	1,349
1977 (3)	2,900	1,404	2,298	111	5,198	1,515
1978 (3)	3,177	1,733	2,851	121	6,028	1,854
1979 (3)	3,318	2,093	*2,949	141	6,267	2,234
1980 (3)	*3,654	2,092	2,828	145	*6,482	2,237
1981 (3)	3,547	2,277	2,430	111	5,977	2,388

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). (2) Processed into meal, oil, fish solubles, and shell products, and used as bait or animal food. (3) Data are preliminary.

Note:--Joint venture catches are included in 1979. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams. *Record.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, 1980 AND 1981

End Use	1980		1981	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food	2,495	38.5	2,435	40.7
For bait and animal food	126	1.9	112	1.9
Total	2,621	40.4	2,547	42.6
Canned:				
For human food	1,063	16.4	1,022	17.1
For bait and animal food	98	1.5	96	1.6
Total	1,161	17.9	1,118	18.7
Cured for human food	96	1.5	90	1.5
Reduction to meal, oil, etc.	2,604	40.2	2,222	37.2
Grand total	6,482	100.0	5,977	100.0

Note:--Data are preliminary.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, BY MONTHS, 1981

Month	Landings for human food		Landings for industrial products (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	144	4.1	21	0.9	165	2.8
February	139	3.9	9	.4	148	2.4
March	223	6.3	16	.7	239	4.0
April	293	8.3	127	5.2	420	7.0
May	326	9.2	330	13.6	656	11.0
June	345	9.7	359	14.8	704	11.8
July	667	18.8	511	21.0	1,178	19.7
August	473	13.3	358	14.7	831	13.9
September	289	8.2	342	14.0	631	10.6
October	271	7.6	171	7.0	442	7.4
November	205	5.8	104	4.3	309	5.2
December	172	4.8	82	3.4	254	4.2
Total	3,547	100.0	2,430	100.0	5,977	100.0

(1) Processed into meal, oil, solubles, and shell products, and used as bait and animal food.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1)

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives:								
Atlantic and Gulf	8,236	667	105	4	-	-	8,341	671
Great Lakes	15,479	264	-	-	-	-	15,479	264
Anchovies	14,210	541	112,399	4,268	-	-	126,609	4,809
Bluefish	10,491	2,107	6,168	1,127	-	-	16,659	3,234
Bonito	2,955	837	5,070	1,304	9,265	2,545	17,290	4,686
Butterfish	1,504	556	6,282	2,090	-	-	7,786	2,646
Cod:								
Atlantic	10,039	2,537	110,021	34,373	2,614	553	122,674	37,463
Pacific	19,771	4,933	22,090	2,324	-	-	41,861	7,257
Croaker	11,808	4,110	6,258	2,098	-	-	18,066	6,208
Cusk	65	13	3,865	939	101	23	4,031	975
Flounders:								
Atlantic and Gulf:								
Blackback	7,791	3,040	33,152	14,059	-	-	40,943	17,099
Fluke	7,395	5,422	16,435	11,395	-	-	23,830	16,817
Yellowtail	3,022	1,497	31,036	15,335	4	2	34,062	16,834
Other	2,256	939	37,821	17,340	105	84	40,182	18,363
Pacific	6,530	1,755	101,163	17,766	2,801	649	110,494	20,170
Total	26,994	12,653	219,607	75,895	2,910	735	249,511	89,283
Groupers	203	228	12,002	12,461	265	311	12,470	13,000
Haddock	364	151	54,390	21,591	570	272	55,324	22,014
Hake:								
Pacific (whiting)	9,246	200	98,009	6,471	-	-	107,255	6,671
Red	377	66	4,959	834	2	(3)	5,338	900
White	295	48	11,671	2,164	211	50	12,177	2,262
Halibut	13,722	10,647	13,164	10,847	4	4	26,890	21,498
Herring, sea:								
Atlantic	108,416	6,096	30,698	1,524	-	-	139,114	7,620
Pacific	107,915	22,921	-	-	-	-	107,915	22,921
Jack mackerel	2,947	265	28,079	2,527	-	-	31,026	2,792
Lingcod	631	146	6,637	1,550	264	62	7,532	1,758
Mackerel:								
Atlantic	985	211	4,861	609	-	-	5,846	820
King	1,187	1,044	6,036	5,177	-	-	7,223	6,221
Pacific	9,345	841	79,210	7,021	-	-	88,555	7,862
Spanish	2,298	732	3,869	1,222	-	-	6,167	1,954

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Menhaden:								
Atlantic	834,413	31,877	52,807	1,699	-	-	887,220	33,576
Gulf	858,381	33,545	359,808	14,189	-	-	1,218,189	47,734
Total	1,692,794	65,422	412,615	15,888	-	-	2,105,409	81,310
Mullet	36,656	8,133	1	(3)	-	-	36,657	8,133
Ocean perch:								
Atlantic	29	9	16,925	4,816	1,637	437	18,591	5,262
Pacific.	2	1	5,398	904	-	-	5,400	905
Pollock:								
Atlantic	610	138	36,440	8,333	282	65	37,332	8,536
Alaska	3,387	489	130,413	8,531	-	-	133,800	9,020
Rockfishes	5,437	1,237	113,305	19,078	58	14	118,800	20,329
Sablefish.	954	341	27,139	5,990	618	220	28,711	6,551
Salmon, Pacific:								
Chinook or king. .	24,515	40,970	6,516	15,653	40	110	31,071	56,733
Chum or keta . . .	98,874	44,419	6	4	-	-	98,880	44,423
Pink	256,072	110,701	1,034	590	-	-	257,106	111,291
Red or sockeye . .	226,168	192,508	5	5	-	-	226,173	192,513
Silver or coho . .	29,703	26,314	5,472	6,921	35	52	35,210	33,287
Total	635,332	414,912	13,033	23,173	75	162	648,440	438,247
Scup or porgy. . . .	4,660	2,272	15,334	5,578	-	-	19,994	7,850
Sea bass:								
Black.	328	314	3,404	2,443	-	-	3,732	2,757
White.	39	54	-	-	729	1,003	768	1,057
Sea trout:								
Gray	14,251	5,732	12,125	3,346	-	-	26,376	9,078
Spotted.	3,972	3,359	-	-	-	-	3,972	3,359
White.	493	135	652	144	-	-	1,145	279
Sharks:								
Dogfish.	5,748	525	12,646	948	-	-	18,394	1,473
Other.	1,338	568	3,538	1,351	9	4	4,885	1,923
Snapper:								
Red.	77	125	5,566	9,644	184	336	5,827	10,105
Other.	389	511	2,934	3,940	50	68	3,373	4,519
Striped bass	3,784	5,111	79	161	-	-	3,863	5,272
Swordfish.	36	110	8,246	18,748	699	1,492	8,981	20,350
Tilefish	1	1	8,594	7,543	-	-	8,595	7,544

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Tuna:								
Albacore	113	19	21,084	19,351	8,136	7,349	29,333	26,719
Bigeye	-	-	113	165	4,597	2,699	4,710	2,864
Black skipjack . .	-	-	-	-	90	11	90	11
Bluefin.	31	19	3,094	2,795	1,649	973	4,774	3,787
Little	96	21	150	54	18	3	264	78
Skipjack	48	36	7,057	4,854	193,207	98,298	200,312	103,188
Yellowfin.	310	43	3,024	4,444	246,398	144,085	249,732	148,572
Unclassified . . .	3	1	405	253	255	153	663	407
Total	601	139	34,927	31,916	454,350	253,571	489,878	285,626
Warsaw	-	-	296	180	-	-	296	180
Whiting.	2,280	492	34,258	6,885	6	2	36,544	7,379
Wolffish	94	18	1,532	264	7	1	1,633	283
Other marine finfishes:								
Atlantic and Gulf.	77,454	20,986	60,419	7,669	10	6	137,883	28,661
Pacific.	10,364	3,238	12,892	4,466	33	26	23,289	7,730
Other freshwater fishes.	108,074	36,571	-	-	-	-	108,074	36,571
Total fish. . .	2,988,667	643,757	1,818,161	390,359	474,953	261,962	5,281,781	1,296,078
Shellfish et al.								
Clams:								
Hard	18,073	51,045	45	124	-	-	18,118	51,169
Ocean quahog . . .	903	172	35,204	10,012	-	-	36,107	10,184
Soft	8,072	13,906	-	-	-	-	8,072	13,906
Surf	8,739	3,074	37,361	20,392	-	-	46,100	23,466
Other.	12,234	8,420	-	-	-	-	12,234	8,420
Total	48,021	76,617	72,610	30,528	-	-	120,631	107,145
Crabs:								
Blue, hard	195,056	46,426	58	15	-	-	195,114	46,441
Dungeness.	28,276	23,276	7,300	5,809	-	-	35,576	29,085
King	17,611	31,533	70,443	126,134	-	-	88,054	157,667
Snow (tanner). . .	9,973	5,695	97,501	41,653	-	-	107,474	47,348
Other.	8,768	9,208	11,009	6,825	-	-	19,777	16,033
Total	259,684	116,138	186,311	180,436	-	-	445,995	296,574

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1981 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Shellfish et al. - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Lobsters:								
American	33,058	75,012	4,436	11,494	-	-	37,494	86,506
Spiny.	2,797	7,397	3,372	10,895	450	1,130	6,619	19,422
Oysters.	50,052	68,553	-	-	-	-	50,052	68,553
Scallops:								
Bay.	670	2,427	-	-	-	-	670	2,427
Calico	-	-	14,641	13,907	-	-	14,641	13,907
Sea.	5,353	9,809	24,914	101,376	10	31	30,277	111,216
Shrimp:								
New England. . . .	404	313	1,867	1,125	-	-	2,271	1,438
South Atlantic . .	10,499	21,194	6,015	11,275	-	-	16,514	32,469
Gulf	93,890	117,266	174,300	284,134	-	-	268,190	401,400
Pacific Coast. . .	27,327	7,680	40,169	20,208	-	-	67,496	27,888
Other.	95	238	-	-	-	-	95	238
Total	132,215	146,691	222,351	316,742	-	-	354,566	463,433
Squid:								
Atlantic	3,616	1,427	3,658	1,091	-	-	7,274	2,518
Pacific.	45,004	4,512	2,726	373	-	-	47,730	4,885
Other shellfish. . .	34,551	14,729	1,336	910	17,000	29,200	52,887	44,839
Total shellfish et al.. .	615,021	523,312	536,355	667,752	17,460	30,361	1,168,836	1,221,425
Grand total . .	3,603,688	1,167,069	2,354,516	1,058,111	492,413	292,323	6,450,617	2,517,503

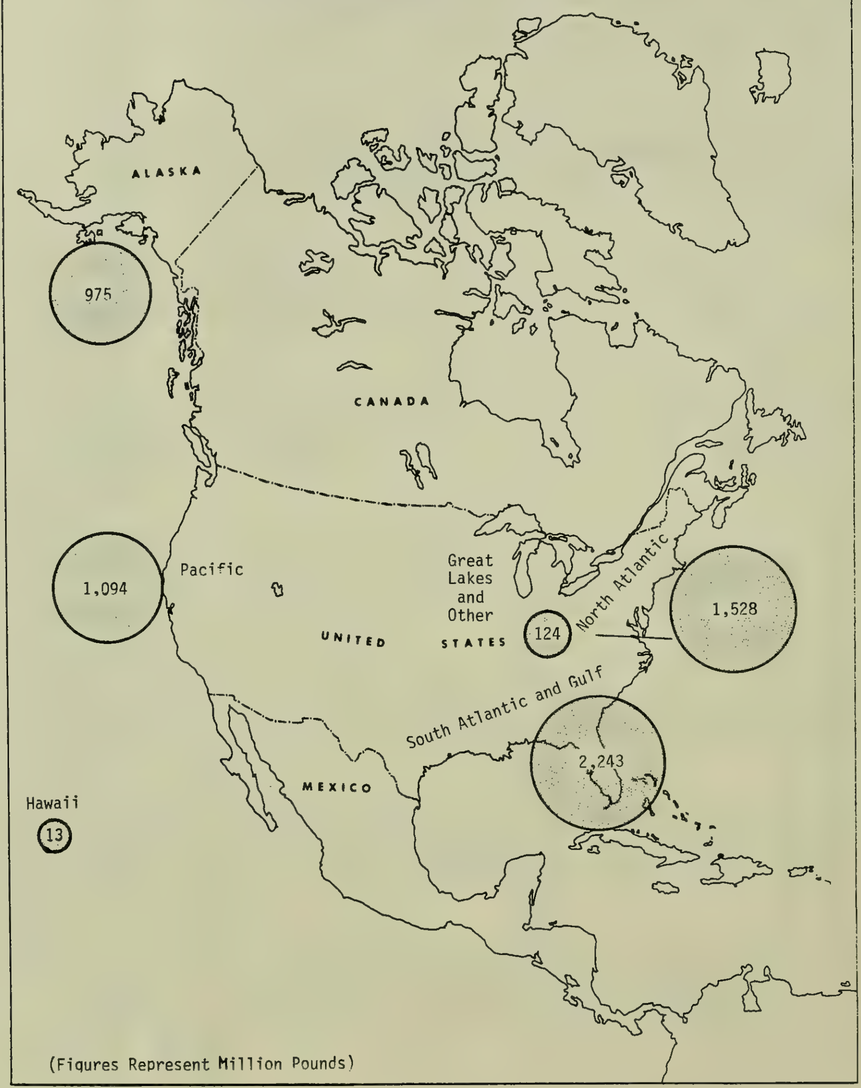
(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

(2) Includes all landings from the Great Lakes and other inland waters.

(3) Less than $500.

Note:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States or catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings " table on page 1. Data do not include production of aquaculture, except oysters and clams.

VOLUME OF LANDINGS BY REGION, 1981



(Figures Represent Million Pounds)

GENERAL. The number of marine recreational fishermen has increased substantially in the last decade. Recent estimates indicate that there are 15-20 million recreational fishermen in the United States whose combined harvests account for approximately 30-35 percent of the total U.S. finfish harvest used for food. Expenditures by these fishermen for recreational fishing, the value of associated industries (such as tackle, boat and trailer manufacturers, and the party and charter boat industries), and the value of the recreational fishing experience itself are significant components of the U.S. economy.

DATA COLLECTION. Detailed statistical information on marine recreational fishing is required to support the objectives of the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA, PL 94-265). The MFCMA mandates preparation of management plans that promote domestic commercial and recreational fisheries, utilizing the best available biological, economic, and social information. Although reliable data on commercial fisheries have been collected for many years, the lack of a continuous or systematic collection of marine recreational fishery data has resulted in an inadequate data base.

Previous marine recreational fishing surveys have employed either a survey of fishermen at home (household survey) or a survey of fishermen at the fishing location (creel census or intercept survey.) The majority of these efforts covered limited geographic areas, were seasonal in nature or addressed specific fisheries. The most significant problems of these surveys related to the high cost of the surveys and the reliability of the results. For example, previous surveys required fishermen to recall information up to one year in the past. Biases introduced by the inability of fishermen to accurately recall the number and size of fish caught, and to correctly identify the species caught, raised questions regarding the reliability of the data. These questions together with other inadequacies in statistical design prompted the NMFS to examine ways of improving the survey design to provide more acceptable data.

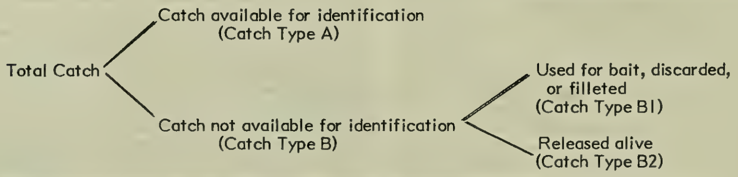
CURRENT APPROACH. An optimum survey design consisting of two independent survey techniques used in 1979 was the result of methodology studies conducted in 1976 and 1977. The chosen design utilized an intercept survey of fishermen and a telephone survey of households. Each technique provided certain information that when combined produced estimates of recreational catch, effort, and participation.

The first method of this "complemented" survey approach involved an on-site intercept survey in four fishing modes: beach/bank; party and charter boat; private and rental boat; and fishing from man-made structures. The allocation of interviews over time and by fishing mode was derived from the identification of all fishing sites in coastal counties by fishing activity. Interviews and examination of fishermen's catches were conducted after they had finished fishing or in some cases while they were still fishing. The type of data collected included fishing effort, catch, distribution of catch by species, weights, lengths, mode, and location of fishing.

The second method in the complemented surveys approach involved a telephone survey of households. In each coastal State all counties within a specified distance from the coast were included in the sample. The first eight digits of the telephone numbers called were obtained from a computerized data file of in-service residential numbers in each county; the last two digits were randomly generated. Calls were allocated by two-month periods and by county according to estimated fishing activity and population. The type of data collected included the number of fishermen, the number of trips, location of fishing, and mode of fishing for each trip. A two-month recall period was used for the telephone survey since beyond that time the respondents memory concerning dates and locations of trips was not sufficiently reliable. Fishermen were not asked detailed information about catch and effort because of the problem in identifying species caught and in recalling weights and lengths.

HOW DATA WAS COMBINED. The household survey collected data from residents with telephones in coastal counties. The intercept survey sample was similar but also included interviews with residents of non-telephone households and of non-coastal counties. During data processing, information collected in the household survey was combined with the intercept survey data to derive expanded estimates of the number of trips taken, the amount of finfish caught (number and weight), and the number of participants in fishing activities.

The estimate of the total number of fish caught in the survey includes: (1) those fish brought ashore in whole form which were available for identification, enumeration, weighing, and measuring by the interviewers (Catch Type A); (2) those fish used for bait, discarded dead, given away or brought ashore filleted or in some other dressed form (Catch Type B1); and (3) those fish released alive (Catch Type B2). In addition to estimating total catch, the survey provides an estimate for the components of total catch as shown in the following diagram.


Catch available for identification
(Catch Type A)
Total Catch
Catch not available for identification
(Catch Type B)
Used for bait, discarded, or filleted
(Catch Type B1)
Released alive
(Catch Type B2)

1979 RESULTS. The first year's survey from January 1979 through December 1979 included the Atlantic Coast, Gulf Coast, Caribbean area (Puerto Rico and the U.S. Virgin Islands) and the Western Pacific area (Hawaii, Guam, and American Samoa). The second year's survey covered calendar year 1980 and included the Atlantic Coast, Gulf Coast, and the Western Pacific area (including the Northern Mariana Islands.) A 1-year survey was started on the Pacific Coast in July 1979 and was later extended to December 1980 in order to coincide with other 1980 surveys. For 1981, all areas of the United States were included in the survey. These surveys are planned to continue annually for the next several years.

The following data and tables are excerpted from the 1979 report "Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979." Additional data such as State landings and fishing trips are included in the original document (CFS No. 8063; for ordering information see PUBLICATIONS section). Additional reports covering the Caribbean, Pacific, and Western Pacific survey regions are scheduled for publication in 1982.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
			Thousands		
Barracudas	-	(1)	358	38	418
Basses, sea	339	2,181	3,341	2,440	8,301
Bluefish	4,824	15,610	4,994	1,903	27,332
Blue runner	-	-	802	496	1,298
Bonito, Atlantic	34	333	69	142	578
Catfishes, sea	(1)	216	5,517	14,993	20,727
Catfishes, freshwater	(1)	154	-	198	375
Cod, Atlantic	2,602	(1)	-	-	2,627
Croaker, Atlantic	-	1,719	3,778	11,008	16,505
Cunner	2,083	1,253	-	-	3,335
Dolphins	-	(1)	2,766	54	2,828
Drum, black	-	(1)	415	2,245	2,665
Drum, red	-	-	520	3,593	4,113
Drums	-	(1)	154	381	538
Eel, American	113	172	47	43	375
Flounders, summer	571	12,653	988	1,882	16,095
Flounders, winter	12,448	10,107	-	-	22,554
Flounders	523	350	(1)	427	1,315
Groupers	-	-	537	880	1,417
Grunt, white	-	-	970	2,902	3,873
Grunts	-	(1)	3,187	1,546	4,733
Hakes	62	322	(1)	-	393
Herrings	800	240	2,927	2,142	6,109
Jack, crevalle	-	(1)	351	1,204	1,556
Jacks	-	51	852	907	1,810
Kingfishes	-	31	1,083	3,383	4,498
Ladyfish	-	-	105	761	866
Little tunny	-	(1)	200	326	546
Mackerel, Atlantic	2,172	1,870	-	-	4,043
Mackerel, king	-	(1)	393	598	994
Mackerel, Spanish	-	-	917	1,292	2,209
Mackerels and tunas	119	131	126	144	519
Mullets	-	(1)	3,198	5,205	8,414
Perch, sand	-	-	190	1,643	1,834
Perch, silver	-	(1)	271	1,622	1,906
Perch, white	143	5,284	67	-	5,494
Perch, yellow	-	322	-	-	322
Pigfish	-	(1)	456	1,521	1,992
Pinfish	(1)	(1)	3,720	9,070	12,811
Pollock	2,277	270	-	-	2,547
Porgies	215	2,883	347	159	3,604
Puffers	(1)	90	150	167	409
Scup	4,581	3,004	(1)	(1)	7,601
Searobins	475	2,499	655	128	3,757
Seatrout, sand	-	-	(1)	6,286	6,291
Seatrout, silver	-	(1)	534	179	723
Seatrout, spotted	-	410	1,511	13,506	15,426
Sharks	(1)	702	439	769	1,914
Sharks, dogfish	156	601	54	80	892
Sheepshead	-	-	1,106	1,861	2,967
Skates and rays	178	587	172	621	1,557
Smelts	644	-	-	-	644
Snapper, gray	-	-	660	1,088	1,748
Snapper, red	-	-	687	3,567	4,254
Snapper, vermilion	-	-	153	358	511
Snappers	-	(1)	2,209	620	2,850
Spadefish, Atlantic	-	-	(1)	451	462
Spot	-	8,708	8,840	932	18,480
Striped bass	185	948	47	(1)	1,181
Tautog	999	1,883	(1)	-	2,883
Toadfishes	(1)	815	295	202	1,313
Tomcod, Atlantic	833	(1)	-	-	849
Trigger and filefishes	(1)	37	364	506	910
Weakfish	59	4,234	124	-	4,417
Windowpane	91	377	-	-	468
Other fish	2,499	1,217	4,436	2,896	11,048
Total	40,064	82,452	66,135	109,372	298,023

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE A)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
	Thousands				
Barracudas	-	(1)	109	-	131
Basses, sea	(1)	599	622	709	1,936
Bluefish	1,358	8,504	2,174	743	12,780
Blue runner	-	-	509	167	676
Bonito, Atlantic	(1)	82	(1)	48	158
Catfishes, sea	(1)	(1)	271	483	765
Catfishes, freshwater	(1)	66	-	83	149
Cod, Atlantic	468	(1)	-	-	492
Croaker, Atlantic	-	1,304	2,116	2,173	5,594
Cunner	59	68	-	-	127
Dolphins	-	(1)	915	36	953
Drum, black	-	(1)	254	1,487	1,743
Drum, red	-	-	449	1,479	1,927
Drums	-	(1)	(1)	60	87
Eel, American	(1)	76	(1)	(1)	96
Flounders, summer	332	6,915	655	1,108	9,011
Flounders, winter	3,957	4,419	-	-	8,377
Flounders	(1)	58	(1)	125	192
Groupers	-	-	214	321	535
Grunt, white	-	-	568	632	1,200
Grunts	-	-	978	150	1,128
Hakes	(1)	220	(1)	-	231
Herrings	(1)	(1)	(1)	(1)	66
Jack, crevalle	-	(1)	161	153	317
Jacks	-	(1)	402	139	543
Kingfishes	-	(1)	523	1,775	2,314
Ladyfish	-	-	33	(1)	42
Little tunny	-	(1)	92	96	205
Mackerel, Atlantic	626	1,538	-	-	2,163
Mackerel, king	-	(1)	176	399	578
Mackerel, Spanish	-	-	898	536	1,433
Mackerels and tunas	43	110	52	(1)	220
Mullets	-	-	1,306	1,861	3,167
Perch, sand	-	-	54	78	131
Perch, silver	-	(1)	126	249	380
Perch, white	47	2,201	(1)	-	2,267
Perch, yellow	-	87	-	-	87
Pigfish	-	(1)	86	365	466
Pinfish	(1)	(1)	1,000	896	1,916
Pollock	197	-	-	-	197
Porgies	(1)	1,226	283	(1)	1,522
Puffers	-	(1)	(1)	(1)	39
Scup	1,857	2,396	(1)	(1)	4,266
Searobins	(1)	54	(1)	-	81
Seatrout, sand	-	-	-	3,674	3,674
Seatrout, silver	-	(1)	223	59	292
Seatrout, spotted	-	328	843	5,432	6,603
Sharks	-	47	52	82	180
Sharks, dogfish	(1)	77	(1)	(1)	105
Sheepshead	-	-	835	925	1,760
Skates and rays	(1)	(1)	(1)	(1)	37
Smelts	339	-	-	-	339
Snapper, gray	-	-	292	590	882
Snapper, red	-	-	190	1,773	1,963
Snapper, vermilion	-	-	57	305	362
Snappers	-	(1)	494	(1)	524
Spadefish, Atlantic	-	-	(1)	179	184
Spot	-	2,443	3,974	264	6,680
Striped bass	43	487	(1)	(1)	540
Tautog	538	1,102	(1)	-	1,641
Toadfishes	-	(1)	(1)	-	(1)
Tomcod, Atlantic	707	(1)	-	-	712
Trigger and filefishes	-	(1)	79	393	476
Weakfish	(1)	3,039	115	-	3,166
Windowpane	(1)	33	-	-	57
Other fish	362	147	1,457	365	2,331
Total	11,069	37,836	23,811	30,497	103,213

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE B1)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
			Thousands		
Barracudas	-	-	79	-	79
Basses, sea	146	247	1,306	512	2,211
Bluefish	2,924	5,333	2,152	314	10,723
Blue runner	-	-	199	(1)	214
Bonito, Atlantic	(1)	240	41	(1)	324
Catfishes, sea	-	(1)	639	2,104	2,755
Catfishes, freshwater	(1)	(1)	-	33	58
Cod, Atlantic	1,729	(1)	-	-	1,729
Croaker, Atlantic	-	225	629	3,272	4,127
Cunner	232	39	-	-	271
Dolphins	-	-	1,847	(1)	1,852
Drum, black	-	(1)	(1)	81	94
Drum, red	-	-	36	507	542
Drums	-	(1)	89	58	147
Eel, American	44	56	(1)	(1)	129
Flounders, summer	111	3,734	249	677	4,771
Flounders, winter	7,062	2,398	-	-	9,460
Flounders	424	264	(1)	147	840
Groupers	-	-	210	135	345
Grunt, white	-	-	122	962	1,084
Grunts	-	(1)	654	376	1,030
Hakes	(1)	100	-	-	121
Herrings	754	163	2,738	1,396	5,050
Jack, crevalle	-	-	(1)	223	239
Jacks	-	39	253	155	447
Kingfishes	-	(1)	277	526	811
Ladyfish	-	-	(1)	112	118
Little tunny	-	(1)	44	51	98
Mackerel, Atlantic	1,376	330	-	-	1,705
Mackerel, king	-	-	197	199	397
Mackerel, Spanish	-	-	(1)	660	674
Mackerels and tunas	58	(1)	55	(1)	155
Mullets	-	(1)	1,708	2,739	4,449
Perch, sand	-	-	79	546	625
Perch, silver	-	(1)	(1)	185	223
Perch, white	(1)	590	(1)	-	607
Perch, yellow	-	(1)	-	-	(1)
Pigfish	-	-	(1)	174	193
Pinfish	(1)	-	1,385	2,231	3,616
Pollock	830	270	-	-	1,100
Porgies	190	718	(1)	62	999
Puffers	-	-	(1)	(1)	(1)
Scup	1,588	266	-	-	1,854
Searobins	63	133	(1)	(1)	215
Seatrout, sand	-	-	-	937	937
Seatrout, silver	-	-	296	43	339
Seatrout, spotted	-	(1)	123	2,750	2,895
Sharks	-	230	82	236	548
Sharks, dogfish	89	68	(1)	32	192
Sheepshead	-	-	133	226	359
Skates and rays	(1)	(1)	(1)	(1)	95
Smelts	223	-	-	-	223
Snapper, gray	-	-	110	491	601
Snapper, red	-	-	417	1,168	1,585
Snapper, vermilion	-	-	(1)	(1)	37
Snappers	-	(1)	1,608	82	1,703
Spadefish, Atlantic	-	-	(1)	(1)	(1)
Spot	-	2,431	3,691	31	6,154
Striped bass	90	73	-	-	163
Tautog	269	528	-	-	797
Toadfishes	-	266	(1)	(1)	292
Tomcod, Atlantic	65	(1)	-	-	71
Trigger and filefishes	(1)	(1)	70	34	133
Weakfish	47	1,006	(1)	-	1,053
Windowpane	(1)	(1)	-	-	(1)
Other fish	1,659	801	2,198	558	5,215
Total	20,090	20,738	23,953	25,180	89,961

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Catch Type B1 is an estimate of part of the total catch based on fish not available in whole form for interviewer's identification, as reported by fishermen. Included are those fish used as bait, filleted, given away, discarded dead, etc., excluding fish released alive. Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE B2)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
			Thousands		
Barracudas	-	-	169	38	207
Basses, sea	186	1,336	1,413	1,219	4,154
Bluefish	542	1,774	667	846	3,829
Blue runner	-	-	94	315	409
Bonito, Atlantic	-	(1)	(1)	78	95
Catfishes, sea	-	193	4,607	12,406	17,207
Catfishes, freshwater	-	86	-	82	168
Cod, Atlantic	406	-	-	-	406
Croaker, Atlantic	-	190	1,032	5,562	6,784
Cunner	1,792	1,146	-	-	2,938
Dolphins	-	(1)	(1)	(1)	(1)
Drum, black	-	(1)	151	677	829
Drum, red	-	-	36	1,607	1,643
Drums	-	(1)	41	263	305
Eel, American	57	40	37	(1)	151
Flounders, summer	128	2,003	84	97	2,313
Flounders, winter	1,429	3,289	-	-	4,718
Flounders	94	(1)	(1)	155	284
Groupers	-	-	113	424	538
Grunt, white	-	-	280	1,308	1,589
Grunts	-	-	1,555	1,020	2,575
Hakes	37	(1)	(1)	-	42
Herrings	(1)	61	181	733	992
Jack, crevalle	-	-	173	827	1,000
Jacks	-	(1)	198	613	820
Kingfishes	-	(1)	283	1,082	1,373
Ladyfish	-	-	66	640	706
Little tunny	-	-	64	179	243
Mackerel, Atlantic	171	(1)	-	-	174
Mackerel, king	-	-	(1)	-	(1)
Mackerel, Spanish	-	-	(1)	97	101
Mackerels and tunas	(1)	(1)	(1)	107	144
Mullets	-	(1)	184	605	798
Perch, sand	-	-	58	1,020	1,077
Perch, silver	-	-	116	1,188	1,304
Perch, white	86	2,493	41	-	2,619
Perch, yellow	-	216	-	-	216
Pigfish	-	-	352	981	1,333
Pinfish	-	-	1,335	5,944	7,279
Pollock	1,251	-	-	-	1,251
Porgies	(1)	939	35	86	1,083
Puffers	(1)	71	145	141	359
Scup	1,135	342	-	(1)	1,481
Searobins	394	2,313	626	127	3,460
Seatrout, sand	-	-	(1)	1,675	1,681
Seatrout, silver	-	-	(1)	77	91
Seatrout, spotted	-	59	545	5,324	5,929
Sharks	(1)	426	305	452	1,186
Sharks, dogfish	63	456	(1)	46	593
Sheepshead	-	-	138	710	848
Skates and rays	145	559	129	593	1,426
Smelts	81	-	-	-	81
Snapper, gray	-	-	258	(1)	265
Snapper, red	-	-	80	626	706
Snapper, vermilion	-	-	79	32	111
Snappers	-	(1)	106	511	623
Spadefish, Atlantic	-	-	(1)	248	250
Spot	-	3,834	1,175	637	5,645
Striped bass	52	387	38	-	478
Tautog	192	252	-	-	445
Toadfishes	(1)	541	262	201	1,004
Tomcod, Atlantic	61	(1)	-	-	66
Trigger and filefishes	-	(1)	215	79	300
Weakfish	-	188	(1)	-	198
Windowpane	61	322	-	-	383
Other fish	478	269	782	1,974	3,502
Total	8,905	23,879	18,370	53,694	104,848

(1) Less than 30,000 reported; however, number is included in totals.

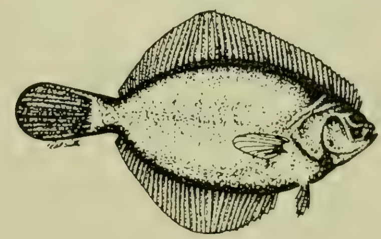
Note:--Catch Type B2 is an estimate of part of the total catch based on fish released alive, as reported by the fishermen. Table may not add because of rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL
FISHERMEN, BY AREA AND MODE OF FISHING FOR EACH SUBREGION, 1979

Mode and subregion	Ocean More than 3 mi.	Ocean 3 mi. or less	Inland	Unknown (1)	All areas
			Thousands		
NORTH ATLANTIC					
Man-made.	-	1,564	3,428	9	5,001
Beach/bank.	-	702	1,587	8	2,297
Party/charter	1,786	341	502	-	2,629
Private/rental.	5,758	4,905	19,475	-	30,137
Total.	7,543	7,512	24,992	17	40,064
MID-ATLANTIC					
Man-made.	-	2,501	4,581	2,731	9,813
Beach/bank.	-	3,269	2,035	658	5,962
Party charter	5,305	1,463	2,664	-	9,431
Private/rental.	4,710	5,945	44,440	2,152	57,247
Total.	10,015	13,178	53,719	5,541	82,452
SOUTH ATLANTIC					
Man-made.	-	13,404	3,210	3,512	20,127
Beach/bank.	-	6,143	927	3,829	10,899
Party/charter	1,130	577	30	-	1,737
Private/rental.	11,275	5,579	11,619	4,900	33,372
Total.	12,404	25,702	15,787	12,241	66,135
GULF					
Man-made.	-	9,000	2,173	9,492	20,665
Beach/bank.	-	4,536	7,050	1,567	13,153
Party/charter	1,981	-	611	1,880	4,472
Private/rental.	13,756	7,428	33,966	15,931	71,081
Total.	15,737	20,964	43,800	28,871	109,372

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Table may not add because of rounding.



ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE A) BY MARINE RECREATIONAL FISHERMEN, BY AREA AND MODE OF FISHING FOR EACH SUBREGION, 1979

Mode and subregion	Ocean More than 3 mi.	Ocean 3 mi. or less	Inland	Unknown (1)	All areas
	Thousands				
NORTH ATLANTIC					
Man-made.	-	545	1,680	6	2,232
Beach/bank.	-	205	532	8	745
Party/charter	265	33	112	-	410
Private/rental.	723	1,324	5,636	-	7,683
Total.	988	2,107	7,960	14	11,069
MID-ATLANTIC					
Man-made.	-	1,062	1,548	1,072	3,681
Beach/bank.	-	2,060	726	413	3,199
Party charter	3,078	774	741	-	4,593
Private/rental.	3,173	3,301	18,193	1,696	26,362
Total.	6,251	7,196	21,208	3,180	37,836
SOUTH ATLANTIC					
Man-made.	-	4,361	1,412	1,789	7,562
Beach/bank.	-	2,171	243	1,380	3,794
Party/charter	653	380	14	-	1,047
Private/rental.	2,798	2,355	4,550	1,707	11,409
Total.	3,451	9,267	6,218	4,876	23,811
GULF					
Man-made.	-	1,211	708	2,810	4,728
Beach/bank.	-	1,081	1,612	472	3,165
Party/charter	258	-	168	1,821	2,246
Private/rental.	4,382	1,945	9,775	4,256	20,358
Total.	4,640	4,237	12,262	9,358	30,497

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED WEIGHT OF FISH CAUGHT (CATCH TYPE A),
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
			Thousand kilograms		
Barracudas.	-	(1)	267	-	275
Basses, sea	(1)	172	271	101	548
Bluefish.	1,937	16,314	3,055	473	21,781
Blue runner	-	-	308	108	415
Bonito, Atlantic.	(1)	188	(1)	101	389
Catfishes, sea	(1)	(1)	137	324	466
Catfishes, freshwater . .	(1)	50	-	39	89
Cod, Atlantic	686	(1)	-	-	728
Croaker, Atlantic	-	711	411	564	1,685
Cunner.	14	7	-	-	21
Dolphins.	-	(1)	2,127	165	2,297
Drum, black	-	(1)	322	1,187	1,528
Drum, red	-	-	469	1,319	1,788
Drums	-	(1)	(1)	109	137
Eel, American	(1)	31	(1)	(1)	43
Flounders, summer	281	5,355	358	549	6,543
Flounders, winter	1,803	2,006	-	-	3,809
Flounders	(1)	37	(1)	40	82
Groupers.	-	-	500	1,930	2,430
Grunt, white.	-	-	140	238	378
Grunts.	-	-	324	25	349
Hakes	(1)	124	(1)	-	129
Herrings.	(1)	(1)	(1)	(1)	14
Jack, crevalle.	-	(1)	66	940	1,006
Jacks	-	(1)	320	446	767
Kingfishes.	-	(1)	130	322	456
Ladyfish.	-	-	27	(1)	34
Little tunny.	-	(1)	401	188	673
Mackerel, Atlantic. . . .	548	1,163	-	-	1,711
Mackerel, king.	-	(1)	865	1,799	2,676
Mackerel, Spanish	-	-	954	460	1,414
Mackerels and tunas . . .	655	1,156	240	(1)	2,125
Mullets	-	-	612	978	1,590
Perch, sand	-	-	16	13	29
Perch, silver	-	(1)	29	22	51
Perch, white.	6	467	(1)	-	473
Perch, yellow	-	17	-	-	17
Pigfish	-	(1)	12	56	71
Pinfish	(1)	(1)	177	90	271
Pollock	248	-	-	-	248
Porgies	(1)	310	170	(1)	486
Puffers	-	(1)	(1)	(1)	7
Scup.	698	1,017	(1)	(1)	1,722
Searobins	(1)	17	(1)	-	24
Seatrout, sand.	-	-	-	1,333	1,333
Seatrout, silver.	-	(1)	99	10	126
Seatrout, spotted	-	440	539	3,031	4,010
Sharks.	-	3,477	86	385	3,949
Sharks, dogfish	(1)	77	(1)	(1)	101
Sheepshead.	-	-	787	741	1,527
Skates and rays	(1)	(1)	(1)	(1)	26
Smelts.	76	-	-	-	76
Snapper, gray	-	-	158	425	582
Snapper, red.	-	-	143	1,220	1,362
Snapper, vermilion. . . .	-	-	7	42	49
Snappers.	-	(1)	251	(1)	256
Spadefish, Atlantic . . .	-	-	(1)	25	28
Spot.	-	425	514	30	968
Striped bass.	266	870	(1)	(1)	1,144
Tautog.	583	952	(1)	-	1,535
Toadfishes.	-	(1)	(1)	-	(1)
Tomcod, Atlantic.	132	(1)	-	-	135
Trigger and filefishes. .	-	(1)	73	303	381
Weakfish.	(1)	3,446	95	-	3,574
Windowpane.	(1)	15	-	-	19
Other fish.	190	497	760	1,920	3,367
Total.	8,214	39,576	16,391	22,155	86,336

(1) Less than 30,000 reported; however, numbers are included in totals.

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED WEIGHT OF FISH CAUGHT (CATCH TYPE A) BY MARINE RECREATIONAL FISHERMEN, BY AREA OF FISHING AND MODE OF FISHING FOR EACH SUBREGION, 1979

Mode and subregion	Ocean More than 3 mi.	Ocean 3 mi. or less	Inland	Unknown (1)	All areas
	Thousand kilograms				
NORTH ATLANTIC					
Man-made.	-	194	373	2	570
Beach/bank.	-	207	152	5	364
Party/charter	537	179	84	-	801
Private/rental.	1,826	1,204	3,450	-	6,480
Total.	2,363	1,784	4,060	7	8,214
MID-ATLANTIC					
Man-made.	-	379	523	241	1,143
Beach/bank.	-	1,796	291	305	2,392
Party charter	9,488	1,518	1,006	-	12,011
Private/rental.	8,420	3,508	11,137	966	24,030
Total.	17,908	7,201	12,956	1,511	39,576
SOUTH ATLANTIC					
Man-made.	-	1,239	535	791	2,566
Beach/bank.	-	667	148	746	1,561
Party/charter	476	583	4	-	1,063
Private/rental.	6,361	2,160	1,638	1,042	11,202
Total.	6,837	4,650	2,325	2,579	16,391
GULF					
Man-made.	-	888	190	1,148	2,226
Beach/bank.	-	432	644	161	1,236
Party/charter	244	-	69	1,391	1,703
Private/rental.	7,384	1,122	5,359	3,124	16,989
Total.	7,628	2,441	6,262	5,824	22,155

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED NUMBER OF PARTICIPANTS IN MARINE RECREATIONAL FISHING, BY STATE AND SUBREGION, FOR THE ATLANTIC AND GULF COASTS, 1979

Subregion	Coastal participants	Non-coastal participants	Out of State (1)	Participants in State (1)
	Thousands			
NORTH ATLANTIC				
Connecticut	304	-	78	382
Maine	99	9	76	185
Massachusetts	454	47	275	776
New Hampshire	33	17	169	219
Rhode Island	167	-	263	430
Total	1,058	73		
MID-ATLANTIC				
Delaware	36	-	88	124
Maryland	595	34	284	913
New Jersey	644	18	310	972
New York	1,059	29	263	1,351
Virginia	384	35	470	889
Total	2,718	116		
SOUTH ATLANTIC				
Florida	1,071	(2)	754	1,826
Georgia	61	23	19	103
North Carolina	173	468	322	963
South Carlina	117	53	190	360
Total	1,422	544		
GULF				
Alabama	106	41	57	204
Florida	1,243	5	898	2,146
Louisiana	489	23	46	558
Mississippi	88	15	52	155
Texas	959	254	107	1,319
Total	2,885	338		
Grand total	8,083	1,070		

(1) Column does not add - one person can be counted as "out of State" for more than one State.

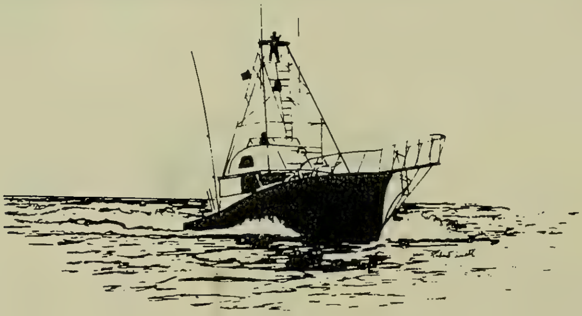
(2) Less than 500 participants.

Note:--Table may not add because of rounding.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN, BY MODE OF FISHING AND SUBREGION, 1979

Mode and subregion	Trips by coastal residents	Trips by non-coastal residents	Trips by out of state residents	All trips
	Thousands			
NORTH ATLANTIC				
Man-made	921	55	448	1,425
Beach/bank	892	27	335	1,254
Party/charter	285	40	208	533
Private/rental	2,715	94	962	3,771
Total	4,813	217	1,953	6,983
MID-ATLANTIC				
Man-made	2,149	88	394	2,631
Beach/bank	1,530	16	771	2,317
Party charter	1,242	48	501	1,790
Private/rental	9,536	239	1,919	11,694
Total	14,457	392	3,584	18,433
SOUTH ATLANTIC				
Man-made	2,503	577	896	3,977
Beach/bank	1,219	802	1,140	3,161
Party/charter	329	21	319	668
Private/rental	4,726	515	725	5,966
Total	8,777	1,915	3,080	13,771
GULF				
Man-made	4,011	204	804	5,019
Beach/bank	2,712	97	690	3,499
Party/charter	484	105	341	930
Private/rental	8,625	550	959	10,134
Total	15,832	956	2,794	19,581
Grand totals	43,879	3,479	11,410	58,768

Note:--Table may not add because of rounding.



ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY CONTINENT AND COUNTRY, 1980

Continent and Country	North Atlantic (1)	California, Oregon, and Washington	Alaska			Hawaii and Pacific Islands	Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska		
	Metric tons, round weight						
North America:							
Canada.	28,479.0	-	1,177.6	-	1,177.6	-	29,656.6
Cuba.	389.6	-	-	-	-	-	389.6
Mexico.	1,509.5	-	-	-	-	-	1,509.5
Europe:							
European Economic Community:							
Federal Republic of Germany.	-	-	-	6,729.5	6,729.5	-	6,729.5
Italy	9,445.4	-	-	-	-	-	9,445.4
Other:							
Faroe Islands	1.3	-	-	-	-	-	1.3
Poland.	338.3	46,928.1	13,274.4	48,093.4	61,367.8	-	108,634.2
Romania	77.7	-	-	-	-	-	77.7
Spain	17,521.1	-	-	-	-	-	17,521.1
USSR.	-	-	54,603.0	3,556.7	58,159.7	-	58,159.7
Asia:							
Japan	10,765.1	-	107,973.1	1,060,690.0	1,168,663.1	795.2	1,180,223.4
Republic of Korea	-	-	32,188.1	177,589.1	209,777.2	-	209,777.2
Taiwan.	-	-	-	5,508.0	5,508.0	-	5,508.0
Grand total	68,527.0	46,928.1	209,216.2	1,302,166.7	1,511,382.9	795.2	1,627,633.2

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY CONTINENT AND COUNTRY, 1981
(Preliminary)

Continent and Country	North Atlantic (1)	California, Oregon, and Washington	Alaska			Hawaii and Pacific Islands	Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska		
	Metric tons, round weight						
North America,							
Canada.	29,910.8	-	-	-	-	-	29,910.8
Europe:							
European Economic Community:							
Federal Republic of Germany	-	-	-	11,872.8	11,872.8	-	11,872.8
Italy	12,398.9	-	-	-	-	-	12,398.9
Other:							
Bulgaria.	-	7,112.8	-	-	-	-	7,112.8
Poland.	4,072.8	64,193.9	41,082.3	55,008.3	96,090.6	-	164,357.3
Spain	19,725.0	-	-	-	-	-	19,725.0
Asia:							
Japan	10,960.4	-	115,814.8	1,033,162.4	1,148,977.2	662.0	1,160,599.6
Republic of Korea	-	-	75,611.9	167,369.6	242,981.5	-	242,981.5
Taiwan.	-	-	-	5,978.8	5,978.8	-	5,978.8
Grand total	77,067.9	71,306.7	232,509.0	1,273,391.9	1,505,900.9	662.0	1,654,937.5

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1980

Species	North Atlantic (1)	Washington, Oregon, and California	Alaska: Gulf of Alaska	Alaska: Eastern Bering Sea and Aleutian Islands	Alaska: Total Alaska	Hawaii and Pacific Islands	Total
	Metric tons, round weight						
Finfish							
Alfonsins and armorheads	-	-	-	-	-	795.2	795.2
Atka mackerel	-	-	13,162.4	20,224.7	33,387.1	-	33,387.1
Butterfish	883.7	-	-	-	-	-	883.7
Cod:							
Atlantic	6,665.0	-	-	-	-	-	6,665.0
Pacific	-	-	34,243.5	37,318.9	71,562.4	-	71,562.4
Flounders:							
Atlantic	204.0	-	-	-	-	-	204.0
Yellowfin sole	-	-	-	77,768.0	77,768.0	-	77,768.0
Pacific, other	-	2.1	15,496.0	88,529.2	104,025.2	-	104,027.3
Haddock	9,755.0	-	-	-	-	-	9,755.0
Hake:							
Atlantic:							
Red	155.2	-	-	-	-	-	155.2
Silver (whiting)	1,696.7	-	-	-	-	-	1,696.7
Pacific (whiting)	-	44,022.9	-	-	-	-	44,022.9
Halibut	-	-	1,177.6	-	1,177.6	-	1,177.6
Herring, river (alewives)	24.6	-	-	-	-	-	24.6
Herring, sea, Pacific (2)	-	-	-	782.6	782.6	-	782.6
Jack mackerel	-	1,724.8	-	-	-	-	1,724.8
Mackerel, Atlantic	382.7	-	-	-	-	-	382.7
Ocean perch:							
Atlantic	98.0	-	-	-	-	-	98.0
Pacific	-	32.4	12,446.9	4,917.0	17,363.9	-	17,396.3
Pollock:							
Atlantic	5,474.0	-	-	-	-	-	5,474.0
Alaska	-	-	112,996.0	1,006,129.5	1,119,125.5	-	1,119,125.5
Rockfishes	-	958.1	4,199.6	3,551.0	7,750.6	-	8,708.7
Sablefish	-	92.8	6,138.8	2,438.0	8,576.8	-	8,669.6
Other finfish	2,818.5	95.0	8,514.3	46,982.3	55,496.6	-	58,410.1
Total fish	28,157.4	46,928.1	208,375.1	1,288,641.2	1,497,016.3	795.2	1,572,897.0
Shellfish et al.							
Crabs, snow (tanner)	-	-	-	7,094.4	7,094.4	-	7,094.4
Lobster, American	194.0	-	-	-	-	-	194.0
Scallops, sea	5,239.0	-	-	-	-	-	5,239.0
Snails (meats)	-	-	-	57.3	57.3	-	57.3
Squid:							
Atlantic:							
Short-finned	17,724.9	-	-	-	-	-	17,724.9
Long-finned	17,211.7	-	-	-	-	-	17,211.7
Pacific	-	-	841.1	6,373.8	7,214.9	-	7,214.9
Total shellfish	40,369.6	-	841.1	13,525.5	14,366.6	-	54,736.2
Grand total	68,527.0	46,928.1	209,216.2	1,302,166.7	1,511,382.9	795.2	1,627,633.2

(1) Cape Hatteras northward. (2) Harvested between January 1 and February 8, 1980, and then declared a prohibited species.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1981
(Preliminary)

Species	North Atlantic (1)	Washington, Oregon, and California	Alaska: Gulf of Alaska	Alaska: Eastern Bering Sea and Aleutian Islands	Alaska: Total Alaska	Hawaii and Pacific Islands	Total
	Metric tons, round weight						
Finfish							
Alfonsins and armorheads. .	-	-	-	-	-	635.8	635.8
Atka mackerel	-	-	18,726.8	18,105.0	36,831.8	-	36,831.8
Butterfish.	1,063.9	-	-	-	-	-	1,063.9
Cod:							
Atlantic.	8,911.0	-	-	-	-	-	8,911.0
Pacific	-	-	34,968.1	39,141.9	74,110.0	-	74,110.0
Flounders:							
Atlantic.	89.0	-	-	-	-	-	89.0
Yellowfin sole.	-	-	-	81,255.1	81,255.1	-	81,255.1
Pacific, other.	-	2.3	14,441.0	91,894.1	106,335.1	-	106,337.4
Haddock	5,925.0	-	-	-	-	-	5,925.0
Hake:							
Atlantic:							
Red	165.9	-	-	-	-	-	165.9
Silver (whiting). . . .	3,046.4	-	-	-	-	-	3,046.4
Pacific (whiting)	-	70,364.7	-	-	-	-	70,364.7
Herring, river (alewives) .	13.9	-	-	-	-	-	13.9
Jack mackerel	-	226.3	-	-	-	-	226.3
Mackerel, Atlantic.	5,309.1	-	-	-	-	-	5,309.1
Ocean perch:							
Atlantic.	18.0	-	-	-	-	-	18.0
Pacific	-	18.1	12,177.0	4,852.1	17,029.1	-	17,047.2
Pollock:							
Atlantic.	3,884.0	-	-	-	-	-	3,884.0
Alaska.	-	-	130,323.3	987,132.1	1,117,455.4	-	1,117,455.4
Rockfishes.	-	353.7	5,679.2	2,491.5	8,170.7	-	8,524.4
Sablefish	-	115.1	7,947.5	2,956.0	10,903.5	-	11,018.6
Other finfish	6,216.2	226.5	7,111.5	39,391.1	46,502.6	26.2	52,971.5
Total fish	34,642.4	71,306.7	231,374.4	1,267,218.9	1,498,593.3	662.0	1,605,204.4
Shellfish et al.							
Lobster, American	175.0	-	-	-	-	-	175.0
Scallops, sea	7,946.8	-	-	-	-	-	7,946.8
Snails (meats).	-	-	-	239.4	239.4	-	239.4
Squid:							
Atlantic:							
Short-finned.	14,856.3	-	-	-	-	-	14,856.3
Long-finned	19,447.4	-	-	-	-	-	19,447.4
Pacific	-	-	1,134.6	5,933.6	7,068.2	-	7,068.2
Total shellfish . . .	42,425.5	-	1,134.6	6,173.0	7,307.6	-	49,733.1
Grand total	77,067.9	71,306.7	232,509.0	1,273,391.9	1,505,900.9	662.0	1,654,937.5

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "diputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

Country and species	1979	1980	1981
	- - - - - - - Metric tons, round weight - - - - - - -		
Canada:			
Cod, Atlantic	6,390.0	6,665.0	8,911.0
Flounders (including yellowtail)	15.0	74.0	11.0
Flounders, other.	74.0	130.0	78.0
Haddock	5,439.0	9,755.0	5,925.0
Ocean perch, Atlantic	26.0	98.0	18.0
Pollock, Atlantic	3,032.0	5,474.0	3,884.0
Other finfish	994.0	850.0	2,902.0
Lobster, American	240.0	194.0	175.0
Scallops, sea (meats)	9,204.0	5,239.0	7,946.8
Squid, short-finned	-	-	60.0
Total.	25,414.0	28,479.0	29,910.8
Cuba:			
Butterfish.	-	9.0	-
Hake:			
Red	-	14.0	-
Silver (whiting).	-	72.8	-
Herring, river (alewives) . . .	-	23.7	-
Mackerel, Atlantic.	-	234.8	-
Other finfish	-	34.4	-
Squid, long-finned.	-	.9	-
Total.	-	389.6	-
European Economic Community:			
Ireland:			
Other finfish	.1	-	-
Squid, short-finned	207.2	-	-
Total.	207.3	-	-
Italy:			
Butterfish.	137.5	73.1	113.5
Hake:			
Red	188.3	42.3	36.6
Silver (whiting).	600.1	501.9	1,704.8
Herring, river (alewives) . .	-	-	2.2
Mackerel, Atlantic	28.4	26.8	1,038.8
Other finfish	600.6	724.1	1,424.4
Squid:			
Short-finned.	3,070.3	5,123.1	3,314.5
Long-finned	2,064.9	2,954.1	4,764.1
Total.	6,690.1	9,445.4	12,398.9
Faroe Islands,			
Other finfish, total	-	1.3	-
Japan:			
Butterfish.	270.7	660.3	692.6
Hake:			
Red	12.8	37.4	15.8
Silver (whiting).	701.3	606.3	644.0
Herring, river (alewives) . . .	-	.1	-
Mackerel, Atlantic.	9.2	88.4	237.6
Other finfish	321.8	618.6	682.9
Squid:			
Short-finned.	3,211.8	2,207.0	4,303.5
Long-finned	3,184.1	6,547.0	4,384.0
Total.	7,711.7	10,765.1	10,960.4

See note at end of table.

(Continued on next page)

FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81 - Continued
(Preliminary)

Country and species	1979	1980	1981
	Metric tons, round weight		
Mexico:			
Butterfish	342.6	72.2	-
Hake:			
Red	40.2	12.2	-
Silver (whiting)	110.1	39.3	-
Herring, river (alewives)	.4	.2	-
Mackerel, Atlantic	11.7	5.7	-
Other finfish	467.4	104.1	-
Squid:			
Short-finned	3,539.5	1,275.8	-
Long-finned	3,573.3	-	-
Total	8,085.2	1,509.5	-
Poland:			
Butterfish	-	3.2	0.1
Hake, silver (whiting)	-	.5	48.0
Herring, river (alewives)	-	-	10.3
Mackerel, Atlantic	-	9.1	3,983.0
Other finfish	-	41.1	30.7
Squid:			
Short-finned	171.5	281.4	.1
Long-finned	-	3.0	.6
Total	171.5	338.3	4,072.8
Romania:			
Butterfish	1.7	2.3	-
Hake:			
Red	.1	.6	-
Silver (whiting)	15.5	.1	-
Mackerel, Atlantic	-	.5	-
Other finfish	7.6	18.2	-
Squid:			
Short-finned	.7	56.0	-
Long-finned	2.9	-	-
Total	28.5	77.7	-
Spain:			
Butterfish	89.5	63.6	257.7
Hake:			
Red	65.3	48.7	113.5
Silver (whiting)	380.3	475.8	649.6
Herring, river (alewives)	-	.6	1.4
Mackerel, Atlantic	5.1	17.4	49.7
Other finfish	425.2	426.7	1,176.2
Squid:			
Short-finned	6,225.3	8,781.6	7,178.2
Long-finned	4,349.9	7,706.7	10,298.7
Total	11,540.6	17,521.1	19,725.0
USSR:			
Butterfish	2.4	-	-
Hake:			
Red	670.2	-	-
Silver (whiting)	3,074.8	-	-
Herring, river (alewives)	11.5	-	-
Mackerel, Atlantic	10.1	-	-
Other finfish	479.6	-	-
Squid:			
Short-finned	.1	-	-
Long-finned	7.9	-	-
Total	4,256.6	-	-
Grand total	64,105.5	68,527.0	77,067.9

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

FOREIGN CATCH

WASHINGTON, OREGON, AND CALIFORNIA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

Country and species	1979	1980	1981
	Metric tons, round weight		
Bulgaria:			
Flounders	-	-	.1
Hake, Pacific (whiting)	-	-	7,023.2
Jack mackerel	-	-	41.1
Ocean perch, Pacific	-	-	1.7
Rockfishes	-	-	17.6
Sablefish	-	-	4.2
Other finfish	-	-	24.9
Total	-	-	7,112.8
Poland:			
Flounders	2.0	2.1	2.2
Hake, Pacific (whiting)	18,072.5	44,022.9	63,341.5
Jack mackerel	315.9	1,724.8	185.2
Ocean perch, Pacific	8.3	32.4	16.4
Rockfishes	149.2	958.1	336.1
Sablefish	41.4	92.8	110.9
Other finfish	32.0	95.0	201.6
Total	18,621.3	46,928.1	64,193.9
USSR:			
Flounders	12.2	-	-
Hake, Pacific (whiting)	96,836.8	-	-
Jack mackerel	710.1	-	-
Ocean perch, Pacific	45.8	-	-
Rockfishes	789.5	-	-
Sablefish	157.0	-	-
Other finfish	155.8	-	-
Total	98,707.2	-	-
Grand total	117,328.5	46,928.1	71,306.7

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

Country and species	1979	1980	1981
	Metric tons, round weight		
Canada,			
Halibut, Total	1,085.9	1,177.6	-
Japan:			
Atka mackerel	566.9	1,895.9	3,636.0
Cod, Pacific	10,429.2	30,581.1	27,767.5
Flounders (1)	12,369.5	11,923.5	9,400.1
Ocean perch, Pacific	7,397.4	10,769.7	10,342.5
Pollock, Alaska	31,919.6	37,897.4	51,885.0
Rockfishes	1,092.0	4,002.1	3,263.4
Sablefish	5,919.1	4,831.3	6,882.3
Other finfish	2,270.6	5,374.9	2,084.5
Squid, unclassified	259.1	697.2	553.5
Total	72,223.4	107,973.1	115,814.8
Mexico:			
Atka mackerel	36.3	-	-
Cod, Pacific	939.3	-	-
Flounders (1)	113.1	-	-
Ocean perch, Pacific	457.0	-	-
Pollock, Alaska	8,676.9	-	-
Rockfishes	5.6	-	-
Sablefish	54.7	-	-
Other finfish	100.8	-	-
Squid, unclassified	12.6	-	-
Total	10,396.3	-	-
Poland:			
Atka mackerel	.4	56.9	279.5
Cod, Pacific	126.9	54.3	135.2
Flounders (1)	18.9	.2	14.9
Ocean perch, Pacific	5.3	29.8	49.5
Pollock, Alaska	19,551.2	13,085.0	39,886.4
Rockfishes	18.7	3.7	16.3
Sablefish	-	-	3.6
Other finfish	14.0	44.4	678.2
Squid, unclassified	9.1	.1	18.7
Total	19,744.5	13,274.4	41,082.3
Republic of Korea:			
Atka mackerel	80.5	736.1	14,811.3
Cod, Pacific	844.1	1,665.8	7,065.4
Flounders (1)	604.4	1,733.8	5,026.0
Ocean perch, Pacific	824.9	408.2	1,785.0
Pollock, Alaska	25,738.8	25,012.8	38,551.9
Rockfishes	184.9	184.0	2,399.5
Sablefish	758.6	891.5	1,061.6
Other finfish	757.1	1,448.9	4,348.8
Squid, unclassified	143.4	107.0	562.4
Total	29,936.7	32,188.1	75,611.9

(Continued)

FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1979-81 - Continued
(Preliminary)

Country and species	1979	1980	1981
	Metric tons, round weight		
USSR:			
Atka mackerel	10,263.6	10,473.5	-
Cod, Pacific	834.7	1,942.3	-
Flounders (1)	368.6	1,838.5	-
Ocean perch, Pacific	1,065.0	1,239.2	-
Pollock, Alaska	17,300.6	37,000.8	-
Rockfishes	121.8	9.8	-
Sablefish	152.1	416.0	-
Other finfish	938.7	1,646.1	-
Squid, unclassified	1.3	36.8	-
Total	31,046.4	54,603.0	-
Grand total	164,433.2	209,216.2	232,509.0

(1) May include yellowfin sole.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH
BY COUNTRY AND SPECIES, 1979-81
(Preliminary)

Country and species	1979	1980	1981
	- - - - - - - Metric tons, round weight - - - - - - -		
European Economic Community, Federal Republic of Germany:			
Atka mackerel	-	42.2	38.0
Cod, Pacific.	-	552.5	1,153.0
Flounders, unclassified	-	15.4	22.9
Ocean perch, Pacific.	-	14.8	10.6
Pollock, Alaska	-	5,996.3	10,304.6
Rockfishes.	-	.3	2.4
Sablefish	-	15.9	34.0
Other finfish	-	38.8	298.5
Squid, unclassified	-	53.3	8.8
Total.	-	6,729.5	11,872.8
Japan:			
Atka mackerel	1,656.2	1,718.7	5,664.5
Cod, Pacific.	35,470.3	29,524.0	30,025.6
Flounders:			
Yellowfin sole.	58,491.0	61,295.0	63,961.3
Other	75,824.7	74,150.7	82,154.3
Herring, sea.	1,707.9	(1)329.2	-
Ocean perch, Pacific.	6,900.8	4,102.7	4,250.0
Pollock, Alaska	779,049.9	832,992.6	803,461.0
Rockfishes.	-	3,024.0	2,168.2
Sablefish	1,687.9	1,881.8	2,412.1
Other finfish	52,676.9	39,877.8	34,149.1
Crabs, snow (tanner).	14,953.5	7,094.4	-
Snails (meats).	537.2	57.3	239.4
Squid, unclassified	5,739.4	4,641.8	4,676.9
Total.	1,034,695.7	1,060,690.0	1,033,162.4
Poland:			
Atka mackerel	1.5	43.9	17.7
Cod, Pacific.	16.5	627.5	493.2
Flounders:			
Yellowfin sole.	-	233.6	5.8
Other	1.5	610.5	86.9
Herring, sea.	-	(1)2.0	-
Ocean perch, Pacific.	1.9	37.2	126.1
Pollock, Alaska	18,229.9	46,145.9	53,984.1
Rockfishes.	-	22.8	26.3
Sablefish	1.8	152.2	13.0
Other finfish	5.8	198.3	159.2
Squid, unclassified	24.6	19.5	96.0
Total.	18,283.5	48,093.4	55,008.3
Republic of Korea:			
Atka mackerel	1,329.0	17,482.9	12,384.8
Cod, Pacific.	3,245.4	6,404.3	6,623.1
Flounders:			
Yellowfin sole.	1,355.7	16,197.9	17,179.0
Other	1,971.8	13,622.5	8,226.7
Herring, sea.	107.6	(1)22.7	-
Ocean perch, Pacific.	282.1	740.0	421.8
Pollock, Alaska	84,137.4	113,864.6	116,015.7
Rockfishes.	-	493.0	293.3
Sablefish	425.6	349.7	394.7
Other finfish	3,978.1	6,791.2	4,733.8
Squid, unclassified	1,233.0	1,620.3	1,096.7
Total.	98,065.7	177,589.1	167,369.6

(Continued)

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH BY COUNTRY AND SPECIES, 1979-81 - Continued (Preliminary)

Country and species	1979	1980	1981
	- - - - - - - - Metric tons, round weight - - - - - - - -		
Taiwan:			
Cod, Pacific.	39.4	199.7	847.0
Flounders:			
Yellowfin sole.	3.0	35.1	109.0
Other	19.2	126.2	1,403.3
Herring, sea.	-	(1).5	-
Ocean perch, Pacific.	2.6	17.7	43.6
Pollock, Alaska	1,928.6	4,973.7	3,366.7
Rockfishes.	-	9.3	1.3
Sablefish	6.3	38.4	102.2
Other finfish	-	68.5	50.5
Squid, unclassified	14.2	38.9	55.2
Total.	2,013.3	5,508.0	5,978.8
USSR:			
Atka mackerel	20,277.3	937.0	-
Cod, Pacific.	2,645.0	10.9	-
Flounders:			
Yellowfin sole.	41,258.7	6.4	-
Other	12,128.1	3.9	-
Herring, sea.	5,717.8	(1)428.2	-
Ocean perch, Pacific.	21.6	4.6	-
Pollock, Alaska	60,617.4	2,156.4	-
Rockfishes.	-	1.6	-
Sablefish	49.2	-	-
Other finfish	8,054.4	7.7	-
Squid, unclassified	6.4	-	-
Total.	150,775.9	3,556.7	-
Grand total.	1,303,834.1	1,302,166.7	1,273,391.9

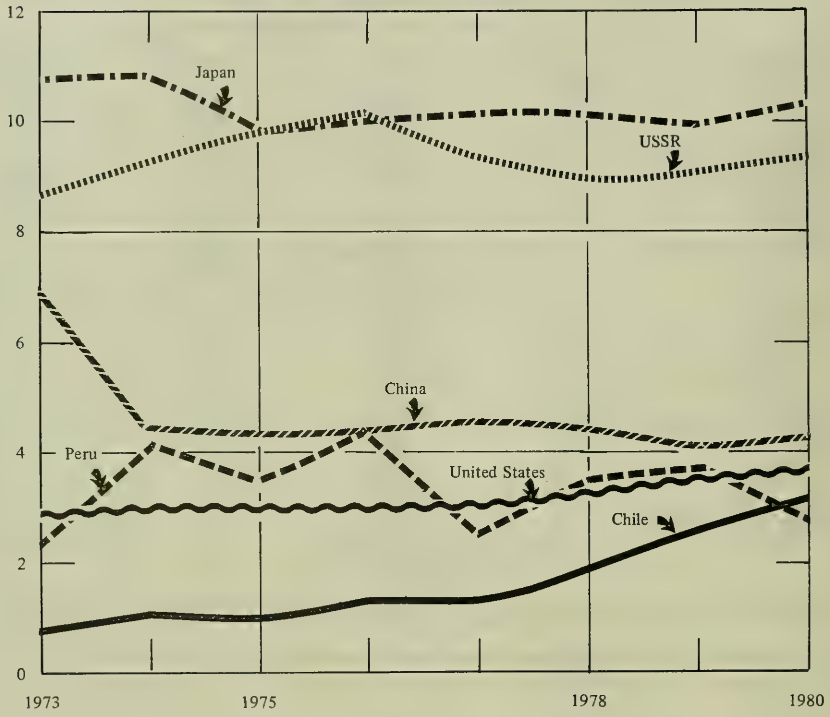
(1) Harvested between January 1 and February 8, 1980, and then declared a prohibited species.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

HAWAII AND PACIFIC ISLANDS (WESTERN PACIFIC SEAMOUNT GROUNDFISH FISHERY) BY COUNTRY AND SPECIES, 1979-81

Country and species	1979	1980	1981
	- - - - - - - - Metric tons, round weight - - - - - - - -		
Japan:			
Alfonsins and armorheads. . . .	217.8	795.2	635.8
Other finfishes	-	-	26.2
Grand total.	217.8	795.2	662.0

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea.



WORLD COMMERICAL CATCH BY LEADING COUNTRIES, 1973-80
(Million metric tons, live weight)

Note:--Does not include marine mammals and aquatic plants.

U.S. AND WORLD COMMERCIAL FISHERY CATCHES, 1950-80

	U.S. commercial catch and exvessel value			World commercial catch				
Year	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (includes weight of mollusk shells)	Exvessel value	Fresh-water	Marine			Grand total
					Peruvian anchovy	Other (1)	Total	
	Million metric tons		Billion dollars	Million metric tons				
	Live weight			Live weight				
1950	2.2	2.6	0.3	2.4	-	18.7	18.7	21.1
1951	2.0	2.4	.4	2.6	-	20.9	20.9	23.5
1952	2.0	2.4	.4	2.8	-	22.3	22.3	25.1
1953	2.0	2.7	.4	3.0	-	22.9	22.9	25.9
1954	2.2	2.8	.4	3.2	-	24.4	24.4	27.6
1955	2.2	2.8	.3	3.4	-	25.5	25.5	28.9
1956	2.4	3.0	.4	3.5	0.1	27.2	27.3	30.8
1957	2.2	2.8	.4	3.9	.3	27.5	27.8	31.7
1958	2.2	2.7	.4	4.5	.8	28.0	28.8	33.3
1959	2.3	2.9	.4	5.1	2.0	29.8	31.8	36.9
1960	2.2	2.8	.4	5.6	3.5	31.1	34.6	40.2
1961	2.4	2.9	.4	5.7	5.3	32.6	37.9	43.6
1962	2.4	3.0	.4	5.8	7.1	31.9	39.0	44.8
1963	2.2	2.8	.4	5.9	7.2	33.5	40.7	46.6
1964	2.1	2.6	.4	6.2	9.8	35.9	45.7	51.9
1965	2.2	2.7	.4	7.0	7.7	38.5	46.2	53.2
1966	1.9	2.5	.5	7.3	9.6	40.4	50.0	57.3
1967	1.8	2.4	.4	7.2	10.5	42.7	53.2	60.4
1968	1.9	2.5	.5	7.4	11.3	45.2	56.5	63.9
1969	1.9	2.5	.5	7.6	9.7	45.4	55.1	62.7
1970	2.2	2.8	.6	8.4	13.1	46.6	59.7	65.6
1971	2.3	2.9	.7	9.0	11.2	48.3	59.5	66.1
1972	2.2	2.8	.7	5.7	4.8	53.7	58.5	62.0
1973	2.2	2.8	.9	5.8	1.7	55.3	57.0	62.7
1974	2.3	2.8	.9	5.8	4.0	56.7	60.7	66.5
1975	2.2	2.8	1.0	6.2	3.3	56.9	60.2	66.4
1976	2.4	3.0	1.3	5.9	4.3	59.6	63.9	69.8
1977	2.4	3.0	1.5	6.1	.8	62.0	62.8	68.9
1978	2.7	3.4	1.9	5.8	1.4	63.2	64.6	70.4
1979	2.8	3.5	2.2	6.0	1.4	63.9	65.3	71.3
1980	2.9	3.6	2.2	6.2	.8	65.2	66.0	72.2

(1) Includes diadromous (salmon and other anadromous fishes and catadromous fishes such as eels).

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1980, data for marine mammals and aquatic plants are excluded. There is a revision in the total world commercial catch back to 1970 as published in FAO Yearbook of Fishery Statistics, Vol. 48 and 50. However, prior to 1974, data on freshwater and marine catches were not revised. Therefore, for the years 1970 to 1973, data will not add to the grand total.

Source:--Fishery Statistics of the United States, Fisheries of the United States, Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Country	1976(1)	1977(1)	1978(1)	1979(1)	1980
	- - - - - - - - - - -	Thousand metric tons	- - - - - - - - - -		
			Live weight		
Japan	9,994	10,123	10,184	9,945	10,410
USSR	10,132	9,347	8,918	9,114	9,412
China	4,320	4,463	4,394	4,054	4,240
United States	(2)3,050	(2)2,980	(2)3,418	(2)3,511	(2)3,635
Chile	1,379	1,319	1,929	2,632	2,817
Peru	4,344	2,534	3,472	3,681	2,731
India	2,174	2,312	2,306	2,340	2,423
Norway	3,361	3,402	2,587	2,650	2,398
Republic of Korea	2,118	2,085	2,092	2,162	2,091
Denmark	1,912	1,806	1,740	1,738	2,027
Indonesia	1,479	1,568	1,642	1,766	1,853
Thailand	1,659	2,188	2,095	1,716	1,650
Philippines	1,393	1,509	1,495	1,475	1,557
Iceland	986	1,374	1,567	1,645	1,515
North Korea	(3)1,120	(3)1,190	(3)1,260	(3)1,330	(3)1,400
Canada	1,102	1,235	1,367	1,411	1,305
Mexico	526	611	703	877	1,240
Spain	1,469	1,389	1,373	1,205	(3)1,240
Vietnam	(3)1,014	(3)1,014	(3)1,014	(3)1,014	(3)1,014
Brazil	653	748	803	855	(3)850
France	778	744	768	732	765
Malaysia	517	619	685	696	737
Ecuador	298	434	617	644	(3)671
Bangladesh	826	835	640	646	650
Poland	750	655	571	601	640
Republic of South Africa	595	550	605	654	640
Burma	502	519	541	565	585
Nigeria	497	504	519	535	480
Italy	420	372	399	426	445
Turkey	153	164	244	350	430
Scotland	476	445	456	382	400
England and Wales	520	525	548	494	397
Argentina	266	370	519	566	384
Senegal	351	341	353	303	359
Netherlands	285	313	324	324	340
Morocco	281	255	287	280	298
Federal Republic of Germany	454	432	412	356	297
All others	7,599	7,640	7,592	7,591	7,865
Total	69,753	68,914	70,439	71,266	72,191

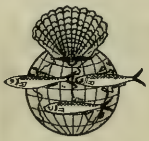
(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Note:--Statistics for mariculture, aquaculture and other kinds of fish farming are included in country totals. Statistics on quantities caught by recreational fishermen are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.



WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENTS, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Continent	1976(1)	1977(1)	1978(1)	1979(1)	1980
	- - - - - - - - - Thousand metric tons - - - - - - - - - Live weight				
Asia.	28,472	29,721	29,731	29,276	30,290
Europe.	13,399	13,282	12,494	12,284	12,366
USSR.	10,132	9,348	8,919	9,113	9,412
South America	7,226	5,697	7,689	8,717	7,851
North and Central America . .	5,187	5,403	6,020	6,339	6,805
Africa.	4,230	4,181	4,254	4,169	4,105
Oceania	294	293	345	353	347
Other	813	989	987	1,015	1,015
Total.	69,753	68,914	70,439	71,266	72,191

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Area	1976(1)	1977(1)	1978(1)	1979(1)	1980
	- - - - - - - - - Thousand metric tons - - - - - - - - - Live weight				
Marine areas:					
Pacific Ocean and adjacent areas.	32,917	32,076	34,124	35,293	35,450
Atlantic Ocean and adjacent areas.	26,611	25,936	25,700	25,176	25,375
Indian Ocean and adjacent areas.	3,107	3,533	3,511	3,443	3,751
Total.	62,635	61,545	63,335	63,912	64,576
Inland waters:					
Asia.	4,268	4,387	4,175	4,344	4,606
Africa.	1,421	1,511	1,466	1,512	1,497
USSR.	770	771	731	805	747
Europe.	290	307	302	310	330
South America	224	243	273	226	260
North and Central America . .	143	147	155	155	173
Oceania	2	3	2	2	2
Total.	7,118	7,369	7,104	7,354	7,615
Grand total.	69,753	68,914	70,439	71,266	72,191

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Species group	1976(1)	1977(1)	1978(1)	1979(1)	1980
	Thousand metric tons Live weight				
Herring, sardines, anchovies, et al.	14,999	12,650	14,380	15,719	16,225
Cods, hakes, haddocks, et al.	12,125	10,597	10,303	10,609	10,720
Miscellaneous marine and diadromous fishes	7,769	7,836	7,746	7,219	7,707
Jacks, mullets, sauries, et al.	7,489	8,797	8,128	7,951	7,338
Freshwater fishes	5,942	6,074	5,783	5,984	6,197
Redfish, basses, congers, et al.	5,155	5,721	5,610	5,358	5,247
Mollusks	4,392	4,628	4,768	4,937	5,218
Mackerels, snoeks, cutlassfishes, et al.	3,826	4,063	4,755	4,415	4,226
Crustaceans	2,518	2,818	2,952	3,135	3,267
Tunas, bonitos, billfishes, et al.	2,301	2,363	2,478	2,385	2,490
Flounders, halibuts, soles, et al.	1,134	1,084	1,210	1,146	1,084
Shads, milkfishes, et al.	766	768	812	770	818
Salmon, trouts, smelts, et al.	556	631	624	751	770
Sharks, rays, chimaeras, et al.	553	557	594	580	583
River eels	67	70	75	85	92
Sturgeons, paddlefishes, et al.	31	32	28	29	29
Miscellaneous	130	226	194	194	179
Total (2)	69,753	68,914	70,439	71,266	72,191

(1) Revised.
(2) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 50.

DISPOSITION OF WORLD COMMERCIAL CATCH, 1976-80
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Item	1976(1)	1977(1)	1978(1)	1979	1980
	Percent of total				
Marketed fresh	20.1	21.4	20.5	19.4	20.5
Frozen	21.0	21.3	21.4	21.7	21.7
Canned	13.5	13.9	13.8	14.1	14.1
Cured	13.9	13.9	13.5	13.2	13.7
Reduced to meal and oil(2)	30.1	28.1	29.4	30.2	28.6
Miscellaneous purposes	1.4	1.4	1.4	1.4	1.4
Total	100.0	100.0	100.0	100.0	100.0

(1) Revised.
(2) Only whole fish destined for the manufacture of oils and meals is included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 51.

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1977-80

Country	1977	1978	1979	1980
	Thousand U.S. dollars			
IMPORTS				
Japan	2,296,419	3,041,612	4,018,221	3,114,613
United States	2,085,846	2,228,173	2,674,168	2,633,160
France	655,107	812,133	997,959	1,131,198
United Kingdom	556,163	686,860	900,525	1,033,566
Federal Republic of Germany	666,535	766,263	884,757	(1)1,022,986
Italy	425,252	547,012	722,210	831,727
Spain	155,760	245,672	409,537	542,355
Belgium	256,478	300,358	375,500	408,341
Netherlands	257,590	326,974	368,894	389,406
Hong Kong	213,139	252,377	306,736	357,738
Denmark	175,109	220,990	269,548	330,665
Sweden	218,433	245,914	291,970	325,160
Canada	205,756	216,411	266,463	299,049
Australia	129,300	137,469	145,543	214,648
Switzerland	138,554	172,982	190,009	211,739
Singapore	87,587	101,497	110,720	139,116
Nigeria	114,402	116,173	122,368	(1)122,368
Poland	76,129	95,370	102,780	(1)102,780
Other countries	1,382,348	1,631,883	1,894,214	2,082,919
Total	10,095,907	12,146,123	15,052,122	15,293,534
EXPORTS				
Canada	756,594	981,226	1,111,006	1,073,315
Denmark	628,665	731,227	859,071	999,713
United States	508,062	895,709	1,070,846	993,352
Norway	805,392	759,769	890,906	974,661
Japan	631,355	754,840	719,850	905,190
Iceland	381,066	506,789	594,898	708,632
Republic of Korea	696,708	639,346	795,385	677,722
Mexico	197,055	392,692	452,672	580,230
Netherlands	314,687	399,579	503,493	524,567
Chile	124,285	171,339	222,454	367,200
United Kingdom	197,027	283,177	331,101	365,168
Thailand	174,342	250,278	359,992	(1)360,717
Spain	236,420	281,033	410,227	343,771
France	150,955	198,955	261,034	320,285
Federal Republic of Germany	225,539	241,953	280,246	(1)317,969
China	(1)16,066	(1)240,634	(1)294,582	(1)308,868
Peru	226,044	(1)252,385	314,457	(1)308,400
USSR	195,199	238,853	299,573	300,756
Other countries	2,877,861	3,312,287	4,258,292	4,460,193
Total	9,343,322	11,532,071	14,030,085	14,890,709

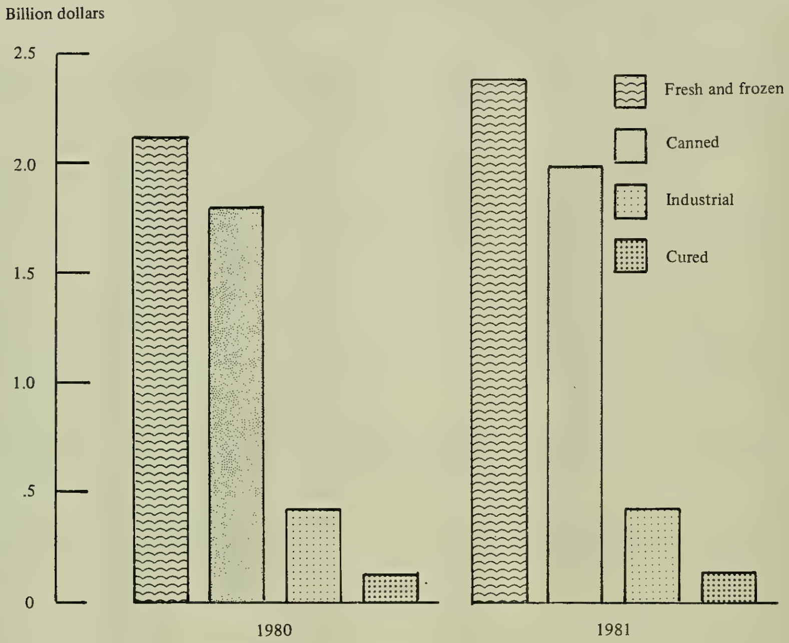
(1) Estimated by FAO.

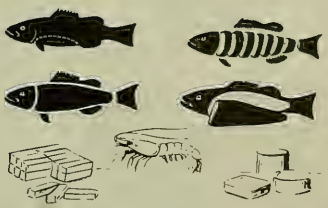
Note:--Data on imports and exports cover the international trade of 158 countries. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, frozen, dried, salted etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1980, Vol. 51.

PROCESSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS, 1980-81
(Processed from domestic catch and imported products)





PROCESSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS, 1980 AND 1981
(Processed from domestic catch and imported products)

Item	1980		1981 (1)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen:				
Fillets and steaks, raw.	261,210	5.8	304,507	6.2
Fish sticks.	88,762	2.0	99,376	2.0
Fish portions.	388,430	8.7	363,195	7.4
Breaded shrimp	254,283	5.7	254,487	5.2
Other.	1,117,434	25.1	1,350,000	27.5
Total.	2,110,119	47.3	2,371,565	48.3
Canned	1,803,823	40.5	1,966,546	40.1
Cured.	124,843	2.8	136,000	2.8
Total edible	4,038,785	90.6	4,474,111	91.2
Industrial:				
Bait and animal food (canned).	145,708	3.3	213,407	4.3
Fish meal, oil, and solubles.	206,081	4.6	166,667	3.4
Other.	65,902	1.5	53,593	1.1
Total industrial . . .	417,691	9.4	433,667	8.8
Grand total.	4,456,476	100.0	4,907,778	100.0

(1) Preliminary.

Note:--Includes value of sealskins and the value of imported items that may be further processed in the United States for 1980. Value is based on selling price at the plant.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1972-81

Year	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1972.	114,493	61,491	269,204	149,148	107,375	140,933
1973.	*127,156	79,818	298,396	198,984	*111,922	176,793
1974.	103,059	64,599	276,226	193,830	91,778	142,559
1975.	91,166	62,182	295,613	216,253	97,694	176,742
1976.	94,169	73,182	344,284	286,240	95,923	202,972
1977.	87,230	68,727	355,443	341,760	97,518	216,551
1978.	94,674	86,712	389,430	415,892	110,888	258,467
1979.	96,050	*99,790	*396,089	*429,164	98,993	*277,460
1980.	88,429	88,762	344,249	388,430	83,182	254,283
1981 (1). . . .	91,995	99,376	313,454	363,195	88,076	254,487

(1) Data for 1981 include only those firms reporting quarterly. Data for previous years include firms reporting annually or quarterly. *Record. Note:--Fish Sticks, Fish Portions, and Breaded Shrimp, Annual Summary, 1981, Current Fishery Statistics No. 8204 will give additional information.

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1980 AND 1981

Species	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Anglerfish	1,571	1,801	1,021	1,122
Buffalofish.	229	138	140	131
Carp	2,317	1,467	2,702	1,529
Cod.	31,259	43,266	40,642	65,743
Cusk	1,229	1,418	1,004	1,296
Flounders.	48,900	87,418	53,757	101,570
Groupers	388	1,331	882	2,866
Haddock.	17,250	29,034	17,419	32,237
Hake, Atlantic . . .	989	1,154	1,020	1,235
Halibut.	577	1,030	119	435
Herring, sea	35,302	15,724	23,026	9,316
Lingcod.	912	1,005	1,219	1,351
Ocean perch:				
Atlantic	7,117	9,256	5,369	7,522
Pacific.	1,642	1,658	1,669	1,818
Pollock, Atlantic. .	8,455	8,521	8,991	9,555
Rockfishes	14,193	12,857	17,551	16,334
Sablefish.	2,038	1,615	1,945	1,552
Salmon	197	399	164	597
Snapper, red	494	1,825	518	1,917
Spanish mackerel . .	239	328	198	282
Whitefish.	684	1,488	641	1,469
Whiting, Atlantic. .	593	486	214	227
Yellow perch	1,747	4,614	1,429	4,793
Yellow pike.	544	1,808	579	1,871
Unclassified	18,010	17,811	19,075	19,468
Total.	196,876	247,452	201,294	286,236
Steaks:				
Cod.	378	396	64	80
Halibut.	2,229	5,956	2,773	7,099
King mackerel. . . .	79	117	1,130	1,357
Salmon	1,430	4,027	1,665	4,475
Swordfish.	893	2,900	1,162	4,481
Tuna	(1)	(1)	116	372
Unclassified	177	362	146	407
Total.	5,186	13,758	7,056	18,271
Grand total. . .	202,062	261,210	208,350	304,507

(1) Included with unclassified. Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 1,205,000 lb valued at $1,687,000 in 1980 and 1,029,000 lb valued at $1,046,000 in 1981. Final data for 1981 will be published in *Production of Fish Fillets and Steaks, Annual Summary, 1981*, Current Fishery Statistics No. 8208.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1980 AND 1981

Species	Pounds per case	1980			1981		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Gefiltefish.	48	238,044	11,426	9,892	283,426	13,604	14,669
Herring and herring specialties	48	135,918	6,524	10,580	85,808	4,119	6,320
Mackerel	45	849,822	38,242	11,512	809,312	36,419	11,158
Roe and caviar	48	13,979	671	3,832	4,942	237	1,391
Salmon:							
Natural.	48	4,201,756	201,684	403,841	4,535,264	217,693	415,894
Specialties.	48	2,101	100	512	2,387	115	629
Sardines, Maine. . . .	23.4	846,533	19,809	31,554	1,630,949	38,164	54,890
Tuna:							
Solid.	21	5,134,332	107,821	236,079	5,600,217	117,604	275,044
Chunks	19.5	24,997,374	487,449	898,057	26,207,240	511,041	991,200
Flakes and grated. .	18	377,016	6,786	9,391	576,767	10,382	15,483
Total tuna	--	30,508,722	602,056	1,143,527	32,384,224	639,027	1,281,727
Specialties.	48	4,392	211	320	7,182	345	428
Tunalike fish	(1)	224,193	4,509	5,476	262,844	5,256	6,206
Other.	--	95,977	4,607	3,351	180,588	8,662	8,359
Total fish	--	37,121,437	889,839	1,624,397	40,186,926	963,641	1,801,671
Shellfish:							
Clams:							
Whole and minced (2)	15	730,072	10,951	27,448	791,659	11,875	28,241
Chowder and juice (2)	30	2,216,406	66,492	38,902	2,264,348	67,930	40,474
Specialties.	48	153,716	7,378	8,271	123,828	5,944	6,863
Crabs:							
Natural.	19.5	233,536	4,554	22,809	176,068	3,433	18,560
Specialties.	48	5,039	242	273	6,533	314	357
Oysters:							
Natural (3).	7	(4)	(4)	(4)	63,019	441	1,192
Specialties.	48	126,849	6,089	5,424	158,147	7,591	4,582
Shrimp:							
Natural (3).	6.75	2,353,542	15,886	70,504	1,838,537	12,410	59,229
Specialties.	48	22,884	1,098	939	22,383	1,074	928
Squid.	48	83,743	4,020	1,017	122,232	5,867	1,519
Other.	48	125,169	6,008	3,839	39,528	1,897	2,930
Total shellfish. .	--	6,050,956	122,718	179,426	5,606,282	118,776	164,875
Total for human consumption. . .	--	43,172,393	1,012,557	1,803,823	45,793,208	1,082,417	1,966,546
For bait and animal food:							
Animal food.	48	10,548,132	506,310	143,959	10,850,450	520,822	211,575
Salmon eggs, et al.. . .	48	10,557	507	1,749	16,966	814	1,832
Total for bait and animal food.	48	10,558,689	506,817	145,708	10,867,416	521,636	213,407
Grand total. . . .	--	53,731,082	1,519,374	1,949,531	56,600,624	1,604,053	2,179,953

---

(1) Pounds per standard case are: solid pack (7 oz net per can) 21 lb; chunk (6.50 oz net per can) 19.5 lb; and flakes and grated (6 oz net per can) 18 lb. (2) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products. (3) Drained weight. (4) Included with other shellfish.

Note:--Final figures will be published in Canned Fishery Products, Annual Summary, 1981 Current Fishery Statistics No. 8201.

PRODUCTION OF CANNED TUNA, 1979-81

Item	Pounds per case	1979		1980		1981	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Albacore:							
Solid.	21	4,494	193,941	4,350	204,661	4,823	242,385
Chunk.	19.5	1,033	42,127	965	41,734	978	43,937
Flakes and grated. .	18	278	7,783	190	5,895	228	7,631
Total	--	5,805	243,851	5,505	252,290	6,029	293,953
Lightmeat:							
Solid.	21	1,341	51,522	784	31,418	777	32,659
Chunk.	19.5	23,957	800,488	24,032	856,323	25,229	947,263
Flakes and grated. .	18	300	7,988	187	3,496	349	7,852
Total	--	25,598	859,998	25,003	891,237	26,355	987,774
Grand total . . .	--	31,403	1,103,849	30,508	1,143,527	32,384	1,281,727

PRODUCTION OF CANNED SHRIMP, BY AREA, 1979-81

Area	Pounds per case	1979		1980		1981	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf States.	6.75	900	30,148	1,753	58,725	1,070	36,050
Pacific States	6.75	520	9,941	601	11,779	769	23,179
Total	--	1,420	40,089	2,354	70,504	1,839	59,229

PRODUCTION OF CANNED SALMON, 1979-81

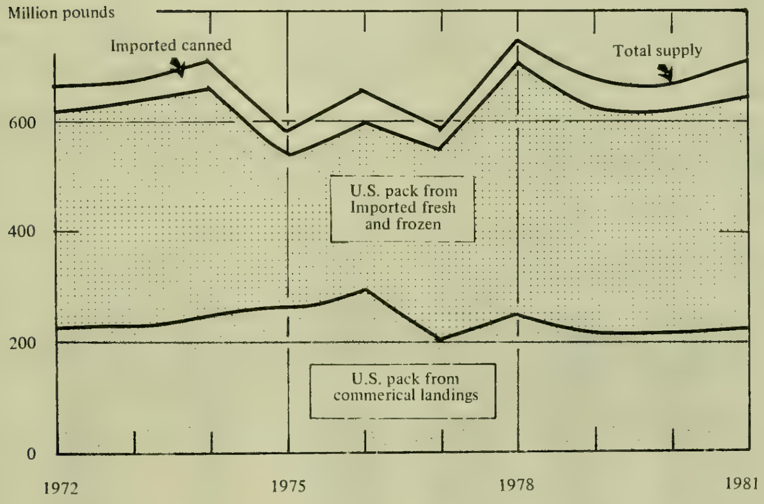
Item	Pounds per case	1979		1980		1981	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Chinook or king. . . .	48.0	15	1,446	16	1,480	9	790
Chum or keta	48.0	144	10,057	439	34,052	620	45,940
Pink	48.0	1,897	148,202	2,112	169,825	2,574	221,905
Red or sockeye	48.0	1,037	112,598	1,579	193,119	1,292	143,557
Silver or coho	48.0	33	2,881	55	5,365	40	3,702
Total	--	3,126	275,184	4,201	403,841	4,535	415,894

PRODUCTION OF CANNED FISHERY PRODUCTS, 1972-81

Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1972. . . .	930,232	853,495	666,598	141,427	1,596,830	994,922
1973. . . .	951,000	996,302	*696,357	170,858	*1,647,357	1,167,160
1974. . . .	963,232	1,127,416	590,774	178,431	1,554,006	1,305,847
1975. . . .	802,112	919,692	583,751	152,253	1,385,863	1,071,945
1976. . . .	904,498	1,220,559	660,659	197,955	1,565,157	1,418,514
1977. . . .	923,660	1,404,534	512,683	170,155	1,436,343	1,574,689
1978. . . .	1,076,254	1,748,068	539,234	164,959	1,615,488	1,913,027
1979. . . .	961,134	1,601,847	479,764	150,316	1,440,898	1,752,163
1980. . . .	1,012,557	1,803,823	506,817	145,708	1,519,374	1,949,531
1981. . . .	*1,082,417	*1,966,546	521,636	*213,407	1,604,053	*2,179,953

*Record.

U.S. SUPPLY OF CANNED TUNA, 1972-81



INDUSTRIAL PRODUCTS

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1980 and 1981

Product	1980		1981	
	Short tons	Thousand dollars	Short tons	Thousand dollars
Dried scrap and meal:				
Fish:				
Anchovy	7,834	2,927	10,230	3,695
Menhaden (1)	271,181	102,077	230,824	89,392
Tuna and mackerel	47,019	16,186	47,179	16,116
Unclassified	29,293	11,679	21,904	8,356
Total	355,327	132,869	310,137	117,559
Shellfish	6,595	800	8,294	1,062
Grand total	361,922	133,669	318,431	118,621
Solubles:				
Menhaden (1)	99,375	10,245	99,739	11,367
Unclassified	34,307	4,231	28,882	3,594
Total	133,682	14,476	128,621	14,961
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Body oil:				
Anchovy	2,283	375	1,715	267
Menhaden (1)	291,434	54,173	170,048	30,778
Tuna and mackerel	4,093	491	4,487	565
Unclassified (2)	14,701	2,897	8,053	1,475
Total	312,511	57,936	184,303	33,085

(1) May include small quantities made from other species. (2) Includes a small amount of liver oils.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data include production in American Samoa and Puerto Rico. Final data will be published in Industrial Fishery Products, Annual Summary, 1981, Current Fisheries Statistics No. 8202.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1972-81

Year	Quantity			Value			
	Fish meal	Fish solubles	Marine animal oil	Fish meal, solubles, and oil	Shell products (1)	Other industrial products	Grand total
	Short tons	Short tons	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars
1972	285,506	134,395	188,445	67,133	4,210	84,639	155,982
1973	287,517	137,435	224,634	160,914	4,015	37,899	202,828
1974	300,714	137,259	237,980	145,325	4,651	48,858	198,834
1975	290,431	127,850	245,653	106,901	5,847	49,550	162,297
1976	309,694	133,107	204,581	142,228	6,085	36,437	184,750
1977	282,291	122,330	133,182	139,423	6,708	44,441	190,572
1978	362,910	162,543	296,287	204,211	4,465	42,247	250,923
1979	*374,293	134,928	267,949	200,690	(2)	58,768	259,458
1980	361,922	133,682	*312,511	*206,081	(2)	63,525	*269,606
1981	318,431	128,621	184,303	166,667	(2)	53,593	220,260

(1) Beginning in 1972, data include only the value of oyster shell products. Data for marine-shell and mussel-shell products are included with "other industrial products." (2) Included with "other industrial products." *Record. Record fish soluble production, 165,359 short tons in 1959; and shell products, $17.3 million in 1950.

Note:--Does not include the value of imported items that may be further processed, or the value of sealskins. Table may not add because of rounding.

COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

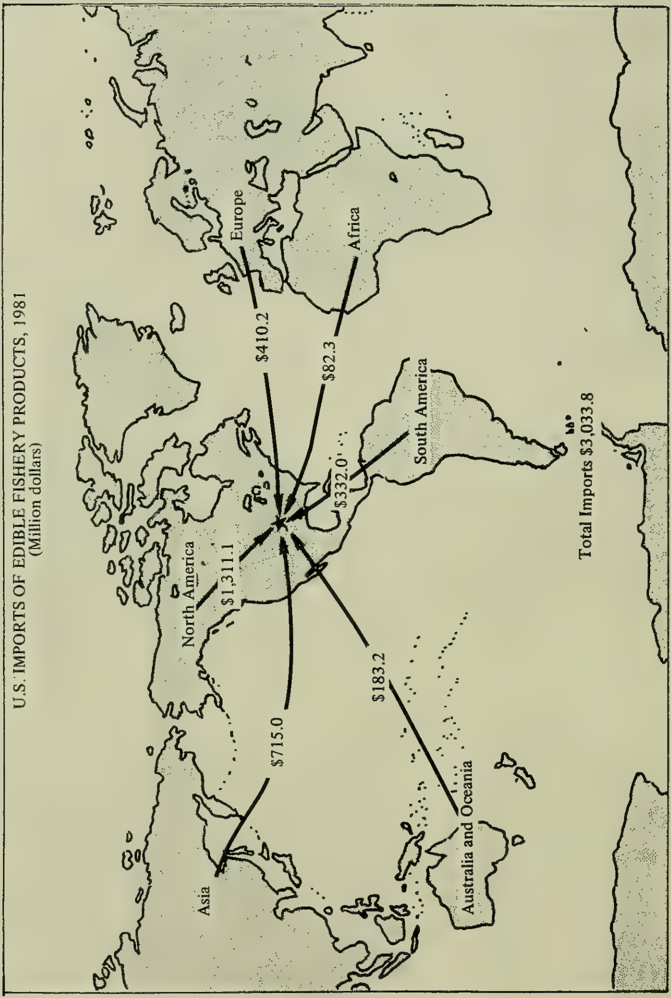
U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1981

Item	January 1	March 31	June 30	September 30	December 31
	Thousand pounds				
Blocks:					
Cod	11,128	17,279	19,029	17,954	17,064
Flounder	3,015	1,857	3,711	4,433	2,340
Greenland turbot	1,276	307	323	317	324
Haddock	9,354	4,724	6,322	4,253	2,668
Ocean perch	1,988	420	551	407	357
Pollock (Alaska and other)	4,808	2,074	3,360	4,757	5,778
Whiting	5,861	5,078	5,953	5,396	6,694
Minced (grated) all species	4,369	3,524	4,957	5,205	5,509
Unclassified	4,941	2,728	2,659	2,867	3,035
Total blocks	46,740	37,991	46,865	45,589	43,769
Fillets and steaks:					
Cod	19,652	19,027	18,514	20,344	16,884
Flounder	12,495	11,204	18,582	25 953	17,287
Greenland turbot	3,383	2,017	1,925	4,587	3,316
Haddock	7,678	5,291	5,637	6,493	5,590
Halibut	2,029	1,175	2,707	6,001	4,298
Ocean perch	8,704	3,801	4,131	12,763	13,827
Whiting	2,588	2,229	2,026	1,839	2,221
Unclassified	31,488	24,250	20,763	21,559	20,059
Total fillets and steaks	88,017	68,994	74,285	99,539	83,482
Fish sticks and portions (cooked and uncooked, all species)	31,973	27,958	37,639	31,902	34,500
Round, dressed, etc:					
Catfish	3,560	2,791	2,855	2,819	2,835
Halibut	5,742	3,658	8,114	7,540	3,908
Rainbow trout	1,867	1,772	3,089	1,106	868
Salmon	26,526	12,565	7,762	38,129	22,314
Whiting	900	1,171	1,503	1,800	1,841
Unclassified fish	25,273	28,775	23,436	26,459	25,998
Crabs:					
King	37,768	25,499	14,285	9,327	18,165
Snow	6,448	5,662	16,811	10,977	8,385
Unclassified	4,855	4,033	4,847	5,231	4,548
Lobsters (spiny and other)	7,571	6,656	6,164	6,894	6,419
Shrimp:					
Raw, headless	31,612	27,400	20,023	26,969	27,740
Breaded	6,360	5,231	5,141	4,465	5,577
Peeled	19,111	14,713	14,544	15,878	15,265
Unclassified	20,595	13,592	7,850	10,914	16,289
Total shrimp	77,678	60,936	47,558	58,226	64,871
Other shellfish	20,001	20,323	23,462	24,439	23,845
Bait and animal food	8,345	10,340	12,595	7,716	4,290
Total fish and shellfish	393,264	319,124	331,270	377,693	350,038

Note:--Holdings of frozen fishery products include domestic and imported frozen fish and shellfish.

Source:--Final figures are published in Frozen Fishery Products, Annual Summary, 1981, Current Fishery Statistics No. 8206.

U.S. IMPORTS



U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1981
(Million dollars)

U.S. IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1972-81

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	- - - Thousand dollars	- - -
1972.	2,341,138	1,233,292	261,119	1,494,411
1973.	*2,416,193	1,398,484	184,649	1,583,133
1974.	2,266,880	1,495,380	215,498	1,710,878
1975.	1,913,089	1,367,180	269,919	1,637,099
1976.	2,228,475	1,916,848	415,497	2,332,345
1977.	2,177,010	2,078,492	543,699	2,622,191
1978.	2,410,512	2,253,142	823,422	3,076,564
1979.	2,369,373	2,668,396	*1,142,656	3,811,052
1980.	2,144,628	2,686,391	962,061	3,648,452
1981.	2,272,011	*3,033,780	1,139,559	*4,173,339

Note:--Statistics on imports are the weights of the individual products as exported, i.e., fillets, steaks, whole, headed, etc. *Record.

Source:--U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1972-81

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	- - - - - - - - - Thousand dollars			- - - - - - - - -	Percent	
1972. . . .	1,494,411	55,555,300	24,292	3,124,000	1.6	5.6
1973. . . .	1,583,133	68,655,100	25,835	3,459,000	1.6	5.0
1974. . . .	1,710,878	100,125,800	29,815	3,772,000	1.7	3.8
1975. . . .	1,637,099	96,515,102	26,675	3,780,000	1.6	3.9
1976. . . .	2,332,345	121,120,869	43,293	4,674,700	1.9	3.9
1977. . . .	2,622,879	147,075,300	58,252	5,484,800	2.2	3.7
1978. . . .	3,075,994	172,952,200	88,240	7,161,500	2.9	4.1
1979. . . .	3,808,791	205,922,662	116,617	7,202,174	3.1	3.5
1980. . . .	3,648,452	239,943,468	87,389	7,535,421	2.4	3.1
1981. . . .	4,173,339	259,012,000	99,053	8,893,200	2.4	3.4

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1980 AND 1981

Item	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Fillets:				
Flounders	36,511	47,126	54,297	74,832
Groundfish	220,954	256,846	257,164	303,888
Other	111,696	111,280	102,702	119,385
Total	369,161	415,252	414,163	498,105
Blocks and slabs	336,117	288,914	344,111	301,279
Halibut	6,338	9,326	6,314	10,053
Salmon	5,533	13,887	6,490	15,933
Tuna:				
Albacore	164,980	148,441	172,134	174,003
Other	554,020	275,488	546,649	299,254
Loins and discs	3,686	5,343	2,511	5,498
Crabmeat	3,302	10,410	7,100	22,912
Scallops (meats)	20,885	82,002	26,227	112,709
Lobsters:				
American (includes fresh-cooked meat)	14,375	40,479	17,865	53,045
Spiny	36,157	230,152	37,970	255,654
Shrimp	215,083	711,200	218,377	714,977
Other	136,951	88,802	156,596	118,595
Canned:				
Herring, not in oil	5,577	8,615	6,156	9,766
Salmon	167	454	70	184
Sardines:				
In oil	18,218	24,226	18,239	25,134
Not in oil	32,960	19,834	37,034	26,061
Tuna:				
In oil	446	569	268	576
Not in oil	63,107	96,685	70,583	109,783
Bonito and yellowtail:				
In oil	531	311	581	472
Not in oil	273	313	305	374
Abalone	3,012	15,363	2,716	19,625
Clams	5,531	6,841	6,702	6,868
Crabmeat	5,002	12,503	5,019	13,187
Lobsters:				
American	2,090	12,529	2,901	19,663
Spiny	88	314	217	770
Oysters	16,989	20,263	20,365	23,960
Shrimp	4,225	8,063	4,383	8,898
Other	53,054	70,089	59,880	93,364
Cured:				
Pickled or salted:				
Cod, haddock, hake, etc.	33,015	35,992	45,312	56,221
Herring	16,727	10,388	20,079	11,523
Other	7,806	13,139	7,412	13,697
Other fish and shellfish	9,222	10,204	7,282	11,637
Total edible fishery products	2,144,628	2,686,391	2,272,011	3,033,780
Nonedible fishery products:				
Scrap and meal	99,074	15,530	118,868	20,473
Fish oils	25,932	7,253	21,908	6,828
Other	-	939,278	-	1,112,258
Total nonedible fishery products	-	962,061	-	1,139,559
Grand total	-	3,648,452	-	4,173,339

Note:--Data include imports into the United States and Puerto Rico and include landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weights of the individual products as exported.

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1981

Continent and country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
North America:				
Canada	580,274	749,383	51,509	800,892
Mexico	83,528	322,742	13,219	335,961
Panama	56,058	85,962	3,308	89,270
Honduras	8,577	30,558	10	30,568
El Salvador	7,306	23,338	490	23,828
Nicaragua	5,358	18,373	-	18,373
Other	49,807	80,695	6,806	87,501
Total	790,908	1,311,051	75,342	1,386,393
South America:				
Brazil	46,661	97,865	7,471	105,336
Ecuador	27,448	83,651	94	83,745
Chile	11,401	14,195	17,248	31,443
Peru	46,004	26,856	3,792	30,648
French Guiana	6,487	26,397	-	26,397
Other	80,800	83,077	20,858	103,935
Total	218,801	332,041	49,463	381,504
Europe:				
European Economic Community:				
Italy	841	986	355,887	356,873
France	44,843	27,536	62,379	89,915
United Kingdom	7,561	16,227	37,150	53,377
Federal Republic of Germany	2,134	1,679	49,175	50,854
Denmark	40,482	45,514	5,156	50,670
Other	5,042	11,419	13,209	24,628
Total	100,903	103,361	522,956	626,317
Other:				
Iceland	142,240	175,506	324	175,830
Norway	53,701	66,572	4,228	70,800
Switzerland	1	4	64,053	64,057
Spain	43,229	35,030	14,573	49,603
Other	27,697	29,658	12,511	42,169
Total	266,868	306,770	95,689	402,459
Asia:				
Japan	190,599	192,144	129,518	321,662
Hong Kong	12,455	17,512	110,834	128,346
Taiwan	70,780	90,470	19,405	109,875
Republic of Korea	95,007	82,368	9,291	91,659
Republic of Philippines	79,121	66,394	11,582	77,976
Other	239,631	266,125	107,052	373,177
Total	687,593	715,013	387,682	1,102,695
Australia and Oceania:				
Australia	12,537	86,806	1,705	88,511
New Zealand	12,537	29,921	516	30,437
British Pacific Islands	43,281	28,598	2	28,600
Papua, New Guinea	41,548	23,004	10	23,014
Other	23,373	14,910	1,531	16,441
Total	133,276	183,239	3,764	187,003
Africa:				
Republic of South Africa	28,786	47,363	2,225	49,588
Ghana	26,201	13,030	11	13,041
Morocco	6,190	4,597	1,559	6,156
Nambia	726	5,893	-	5,893
Other	11,759	11,422	868	12,290
Total	73,662	82,305	4,663	86,968
Grand total	2,272,011	3,033,780	1,139,559	4,173,339

Note:--Statistics on imports are the weights of the individual products as exported, i.e., fillets, steaks, whole, headed, etc.

Source:--Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1980 AND 1981

Species and type	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod	160,418	156,714	157,919	158,333
Flatfish:				
Turbot.	5,348	3,336	3,057	2,091
Other	8,048	9,295	9,306	10,064
Haddock	31,281	36,155	37,626	38,480
Ocean Perch, Atlantic . . .	3,901	2,968	4,665	3,066
Pollock	62,665	38,954	68,954	49,525
Whiting	36,867	25,502	29,830	21,001
Other	6,563	5,358	6,825	5,513
Total	315,091	278,282	318,182	288,073
Minced blocks and slabs: (1).	21,026	10,632	25,929	13,206
Grand total	336,117	288,914	344,111	301,279

(1) Most of the shipments were from Canada, Iceland, and Argentina.

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada.	120,506	111,874	117,306	109,387
Iceland	59,220	55,295	48,709	45,287
Republic of Korea	42,333	26,618	40,956	30,819
Denmark	18,121	18,684	29,111	28,604
Norway.	20,759	22,009	28,365	26,835
Greenland	13,248	11,001	15,220	12,183
Poland.	15,503	10,878	15,964	12,144
Uruguay	10,608	7,774	13,839	9,151
Other	35,819	24,781	34,641	26,869
Total.	336,117	288,914	344,111	301,279

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLETS AND STEAKS IMPORTS, BY SPECIES, 1980 AND 1981 (1)

Species	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Cod	131,412	163,987	150,222	193,104
Haddock (2)	51,175	58,331	52,002	58,898
Ocean Perch, Atlantic	38,367	34,528	54,940	51,886
Total.	220,954	256,846	257,164	303,888

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLETS AND STEAKS IMPORTS, UNDER-QUOTA AND OVER-QUOTA, 1972-81 (1)

Year	Imports		
	Under-quota (2)	Over-quota (3)	Total
	Thousand pounds		
1972.	31,832	181,423	213,255
1973.	34,125	185,971	220,096
1974.	35,456	129,895	165,351
1975.	35,695	164,661	200,356
1976.	36,149	192,138	228,287
1977.	35,437	181,986	217,423
1978.	39,025	194,074	233,099
1979.	42,744	210,213	252,957
1980.	45,241	181,042	226,283
1981.	47,264	205,337	252,601

(1) Includes Atlantic ocean perch.
(2) Dutiable at 1.875 cents per lb. Quota was filled in all years.
(3) Dutiable at 2.5 cents per lb.

Source:--Data on under-quota imports from U.S. Department of the Treasury, Bureau of Customs. Imports over-quota calculated from imports reported by U.S. Department of Commerce, Bureau of the Census.

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1972-81

Year	Quota (1)	Imports	
		Under quota (2)	Over quota (3)
	Thousand pounds		
1972.	78,532	54,474	-
1973.	109,809	36,973	-
1974.	112,176	52,172	-
1975.	120,740	48,847	-
1976.	98,125	56,409	-
1977.	111,246	33,913	-
1978.	101,407	50,031	-
1979.	125,813	82,202	-
1980.	109,074	109,074	5,064
1981.	104,355	104,355	33,372

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack excluding the pack in American Samoa.
(2) Dutiable in 1972 to 1980, 6 percent.
(3) Dutiable in 1972 to 1980, 12.5 percent ad valorem.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year is subject to this quota. Data include tuna imported from American Samoa which are counted towards the quota.

Source:--U.S. Department of the Treasury, Bureau of Customs.

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
North America:				
Mexico	76,062	316,842	70,866	290,309
Panama	13,727	46,205	15,923	55,406
El Salvador	6,233	18,139	6,564	20,841
Honduras	4,637	15,228	6,180	18,506
Guatemala	3,608	12,143	4,546	14,539
Nicaragua	5,624	20,835	3,781	12,521
Costa Rica	2,459	6,092	3,499	8,916
Canada	2,356	5,463	2,434	4,413
Trinidad and Tobago	393	1,131	486	1,487
Greenland	716	1,223	152	463
Turks and Caicos Islands	96	172	166	347
Other	1,224	3,122	157	629
Total	117,135	446,595	114,754	428,377
South America:				
Ecuador	20,195	68,081	24,735	80,303
Brazil	8,768	20,317	10,933	23,459
French Guiana	4,194	14,594	3,512	14,756
Colombia	3,282	13,294	2,759	11,833
Guyana	5,281	16,394	2,418	9,239
Venezuela	3,874	15,993	1,625	6,608
Surinam	935	4,038	1,402	5,919
Peru	1,475	3,999	1,920	5,716
Chile	54	181	21	72
Argentina	16	23	144	422
Total	48,074	156,914	49,469	158,327
Europe:				
European Economic Community:				
United Kingdom	1,651	4,049	992	2,852
France	-	-	306	1,232
Greece (1)	-	-	219	654
Denmark	1	2	97	287
Netherlands	274	600	119	252
Other	355	827	137	163
Total	2,281	5,478	1,870	5,440
Other:				
Norway	1,598	6,288	1,223	4,080
Spain	547	2,277	263	1,828
Iceland	64	288	245	1,343
USSR	-	-	1,125	633
German Democratic Republic	-	-	62	180
Other	127	386	28	116
Total	2,336	9,239	2,946	8,180
Asia:				
India	12,999	20,898	18,998	32,731
China	934	3,437	4,984	17,663
Thailand	8,841	16,586	6,469	14,278
Taiwan	5,427	9,754	5,519	10,940
Pakistan	3,358	5,264	4,526	9,029
Hong Kong	1,975	4,662	2,597	7,919
Bangladesh	930	2,847	1,981	5,893
Burma	616	2,268	918	3,363
Malaysia	2,010	3,433	1,403	2,865
Kuwait	706	2,921	684	2,355
Indonesia	4,579	8,840	778	1,695
Sri Lanka (Ceylon)	1,670	4,520	625	1,447
Other	2,013	4,216	1,886	4,372
Total	46,058	89,646	51,368	114,550
Australia and Oceania	1,530	6,692	1,216	5,684
Africa	1,894	4,699	1,137	3,317
Grand total	219,308	719,263	222,760	723,875

(1) Listed with other European Countries in 1980 and in the European Economic Community in 1981.
Note:--Statistics on imports are the weights of the individual products as exported, i.e., raw, headless, peeled, etc. Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1980 AND 1981

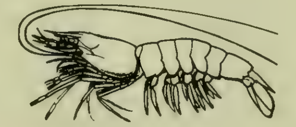
Type of product	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (heads off).	138,750	519,217	140,952	520,254
Peeled:				
Canned.	4,225	8,063	4,383	8,898
Not breaded:				
Raw	66,270	170,459	65,540	164,842
Other	9,891	21,129	8,890	21,363
Breaded	172	395	2,995	8,518
Total.	219,308	719,263	222,760	723,875

Source:--U.S. Department of Commerce, Bureau of the Census.

FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1980 AND 1981

Country	1980		1981	
	Short tons	Thousand dollars	Short tons	Thousand dollars
Chile	-	-	26,763	9,650
Canada.	24,203	7,324	24,266	8,035
Panama.	18,054	5,810	8,345	2,757
Peru.	6,622	2,163	-	-
Miquelon.	389	127	-	-
USSR.	231	87	-	-
Norway.	25	17	-	-
Other	13	2	60	31
Total.	49,537	15,530	59,434	20,473

Source:--U.S. Department of Commerce, Bureau of the Census.



FOREIGN TRADE

U.S. EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1980 AND 1981

Item	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Eels, live	(1)	(1)	937	1,328
Fresh and frozen:				
Whole or eviscerated:				
Eels	(1)	(1)	980	1,390
Herring	(1)	(1)	80,351	39,766
Mackerel	(1)	(1)	590	300
Mullet	(1)	(1)	5,037	2,127
Pollock	(1)	(1)	1,572	1,877
Sablefish	(1)	(1)	1,033	710
Salmon	122,112	198,397	200,557	368,037
Unclassified	143,672	91,703	67,247	54,428
Fillets and steaks:				
Salmon	3,353	8,674	3,573	6,289
Herring	(1)	(1)	19,865	11,544
Unclassified	46,657	41,866	36,079	35,886
Fish sticks and portions	975	1,334	2,483	3,110
Shrimp	15,913	48,928	17,608	53,730
King crab	28,871	76,409	15,831	54,772
Snow crab	33,742	49,825	31,998	55,215
Squid	(1)	(1)	11,238	7,256
Unclassified fish and shellfish	34,095	54,676	18,827	46,593
Canned fish and shellfish:				
Mackerel	10,362	13,764	16,833	20,104
Salmon	74,006	149,971	63,494	128,616
Sardines	1,839	1,371	1,731	1,700
Shrimp	5,832	17,207	4,545	13,954
King crab	373	2,179	132	569
Squid	8,473	2,327	10,827	4,120
Unclassified	2,585	6,336	2,970	6,569
Cured	14,101	18,907	14,725	21,443
Roe:				
Herring	(1)	(1)	8,640	20,012
Pollock	(1)	(1)	76	93
Salmon	(1)	(1)	19,568	94,184
Sea urchin	(1)	(1)	167	926
Unclassified	26,556	120,032	3,146	9,463
Other	379	457	6,609	6,654
Total edible fishery products	573,896	904,363	669,269	1,072,765
Nonedible fishery products:				
Fish meal	170,562	29,137	94,054	19,056
Fish oils	284,009	52,395	238,308	42,572
Seal furs	(2)	1,897	(2)	1,148
Other	-	18,362	-	21,454
Total nonedible fishery products	-	101,791	-	84,230
Grand total	-	1,006,154	-	1,156,995

(1) Data not reported separately prior to 1981.

(2) Number of seal furs was 21,604 in 1980 and 14,834 in 1981.

Note:--Statistics on exports are the weights of the individual products for export, i.e., fillets, steaks, whole, headed, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1981

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
North America:				
Canada.	111,201	146,885	3,692	150,577
Mexico.	11,635	24,060	1,746	25,806
Netherlands Antilles.	1,506	2,910	55	2,965
Bermuda	1,112	2,666	18	2,684
Dominican Republic.	820	914	675	1,589
Bahamas	935	1,381	134	1,515
Trinidad and Tobago	763	1,110	19	1,129
Panama.	507	873	11	884
British Virgin Islands. . . .	815	800	4	804
French West Indies.	731	711	17	728
Guatemala	385	449	43	492
Honduras.	404	294	65	359
Cayman Islands.	170	313	12	325
Barbados.	222	239	1	240
Jamaica	150	179	11	190
Haiti	59	91	-	91
Belize.	51	84	-	84
Costa Rica.	1	3	37	40
Nicaragua	8	7	-	7
Turks and Caicos Islands. . .	7	7	-	7
El Salvador	-	-	5	5
Total	131,482	183,976	6,545	190,521
South America:				
Venezuela	21,583	14,472	1,607	16,079
Peru.	40	42	2,061	2,103
Colombia.	227	198	36	234
Surinam	173	189	11	200
Argentina	3	18	105	123
Chile	20	66	31	97
Brazil.	1	9	45	54
Ecuador	-	-	47	47
Bolivia	16	32	-	32
Uruguay	10	11	-	11
Paraguay.	1	5	-	5
Guyana.	-	-	1	1
Total	22,074	15,042	3,944	18,986
Europe:				
European Economic Community:				
United Kingdom.	47,699	88,651	17,650	106,301
France.	32,185	58,952	337	59,289
Netherlands	9,220	19,247	15,449	34,696
Federal Republic of Germany	14,890	12,736	10,260	22,996
Belgium and Luxembourg. . .	8,509	16,380	3,643	20,023
Italy	2,339	4,348	1,071	5,419
Greece.	8,178	4,418	52	4,470
Denmark	1,919	3,351	10	3,361
Ireland	727	1,375	3	1,378
Total.	125,666	209,458	48,475	257,933
Other:				
Sweden.	6,301	11,524	2,721	14,245
Poland.	9,162	8,726	-	8,726
Norway.	5,081	3,498	447	3,945
Portugal.	4,394	3,056	-	3,056
Spain (1)	1,115	1,436	1,479	2,915
Switzerland	1,019	2,359	285	2,644

See footnotes at end of table.

(Continued)

FOREIGN TRADE

U.S. EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1981 - Continued

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	- - - - - - - - Thousand dollars	- - - - - - - -	
Other - continued:				
Finland	313	337	-	337
Bulgaria	-	-	143	143
Austria	6	21	2	23
Union of Soviet Socialist Republics	(2)	1	9	10
Cyprus	2	7	-	7
Turkey	-	-	3	3
Iceland	1	2	-	2
Malta and Gozo	1	1	-	1
Total	27,395	30,968	5,089	36,057
Asia:				
Japan	293,582	552,313	7,655	559,968
Republic of Korea	27,152	26,084	769	26,853
Taiwan	2,849	8,376	1,071	9,447
Hong Kong	1,581	3,169	542	3,711
Saudi Arabia	2,484	3,388	89	3,477
Singapore	885	2,296	55	2,351
Philippines	4,190	1,685	531	2,216
Israel	780	727	11	738
Thailand	414	617	53	670
Kuwait	394	338	7	345
Lebanon	76	269	-	269
Indonesia	78	184	3	187
United Arab Emirates	73	113	-	113
Malaysia	37	106	-	106
Qatar	22	43	-	43
Bahrain	13	27	15	42
Jordan	37	36	1	37
Iraq	113	30	-	30
Oman	6	11	-	11
China	-	-	10	10
Brunei	1	2	-	2
India	1	1	-	1
Total	334,768	599,815	10,812	610,627
Australia and Oceania:				
Australia	11,379	22,919	82	23,001
New Zealand	358	781	7	788
French Pacific Islands	225	541	1	542
Territory of the Pacific Islands	172	172	6	178
Other Pacific Islands	22	31	1	32
British Pacific Islands	49	27	1	28
Western Samoa	2	4	-	4
Papua, New Guinea	2	3	-	3
Total	12,209	24,478	98	24,576

See footnotes at end of table.

(Continued)

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1981 - Continued

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
Africa:				
Egypt	4,343	2,043	8,802	10,845
Republic of South Africa	2,453	3,668	42	3,710
Nigeria	8,297	2,364	304	2,668
Libya	121	327	-	327
Canary Islands (3)	153	196	-	196
Ghana	32	64	113	177
Guinea	177	127	1	128
Togo	22	125	-	125
Western Africa	52	48	-	48
Zaire	6	27	-	27
Liberia	11	23	-	23
Sudan	8	16	3	19
Mauritius	-	-	2	2
Total	15,675	9,028	9,267	18,295
Grand total	669,269	1,072,765	84,230	1,156,995

(1) Does not include Canary Islands, a province of Spain.
(2) Less than 500 lb.
(3) A province of Spain.

Note:--Statistics on exports are the weights of the individual products for export, i.e., fillets, steaks, whole, headed, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FISHERY PRODUCTS EXPORTS, 1972-81

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1972	171,642	134,188	23,720	157,908
1973	238,942	241,866	57,302	299,168
1974	178,011	194,966	67,166	262,132
1975	218,152	267,360	37,369	304,729
1976	240,866	329,810	54,880	384,690
1977	331,059	473,375	47,121	520,496
1978	448,312	831,654	73,880	905,534
1979	553,579	1,022,335	62,162	1,084,497
1980	573,896	904,363	*101,791	1,006,154
1981	*669,269	*1,072,765	84,230	*1,156,995

Note--Statistics on exports are the weights of the individual products for export, i.e., fillets, steaks, whole, headed, etc.

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

DOMESTIC AND FOREIGN SHRIMP PRODUCTS EXPORTS, 1980 AND 1981

Item	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh and frozen:				
Domestic	15,913	48,928	17,608	53,730
Foreign.	9,566	33,997	13,687	44,415
Total	25,479	82,925	31,295	98,145
Canned:				
Domestic	5,832	17,207	4,545	13,954
Foreign.	371	679	31	81
Total	6,203	17,886	4,576	14,035
Total:				
Domestic	21,745	66,135	22,153	67,684
Foreign.	9,937	34,676	13,718	44,496
Total	31,682	100,811	35,871	112,180

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	8,016	23,403	7,577	25,594
Mexico	3,723	10,416	7,291	18,758
Japan.	2,841	11,670	1,524	5,522
Saudi Arabia	106	450	98	446
Netherlands Antilles	32	135	84	315
Sweden	32	135	80	311
Bermuda.	89	378	66	301
Denmark.	-	-	94	301
Switzerland.	41	125	64	289
Federal Republic of Germany.	11	84	75	287
Other.	1,022	2,132	655	1,606
Total	15,913	48,928	17,608	53,730

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	4,282	12,771	3,644	10,711
Sweden	117	328	232	1,307
Switzerland.	288	942	206	614
Japan.	51	116	95	290
United Kingdom	394	1,078	135	288
Australia.	91	224	53	181
New Zealand.	105	358	50	173
Republic of South Africa . .	71	330	20	71
Netherlands.	37	52	34	36
Other.	396	1,008	76	283
Total	5,832	17,207	4,545	13,954

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	67,332	105,576	130,890	252,629
France.	13,931	30,533	17,609	39,689
Canada.	19,255	20,288	24,223	25,390
United Kingdom.	5,740	9,898	8,488	13,886
Republic of Korea	1,717	1,649	5,366	9,619
Belgium and Luxembourg. . .	2,439	5,632	2,526	5,797
Sweden.	4,913	7,793	3,772	5,294
Netherlands	1,493	3,744	2,153	5,027
Denmark	1,228	2,307	1,635	2,788
Federal Republic of Germany	2,024	5,267	1,044	2,389
Italy	927	3,369	576	1,933
Republic of South Africa. .	348	770	607	833
Other	765	1,571	1,668	2,763
Total.	122,112	198,397	200,557	368,037

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, FILLETS, STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
France.	709	2,443	1,080	2,012
Canada.	896	1,442	557	883
Sweden.	249	476	290	757
Japan	294	937	442	700
United Kingdom.	187	427	486	560
Federal Republic of Germany	261	925	139	331
Republic of South Africa. .	170	167	255	276
Belgium and Luxembourg. . .	152	303	61	144
Lebanon	-	-	36	124
Other	435	1,554	227	502
Total.	3,353	8,674	3,573	6,289

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom	33,012	72,588	30,084	64,192
Canada	14,860	28,688	11,325	21,838
Australia.	9,089	17,723	9,041	18,220
Netherlands.	7,354	14,183	4,865	9,345
Belgium and Luxembourg . . .	4,465	7,448	2,972	5,043
Japan.	527	1,163	1,241	2,673
Republic of South Africa . .	792	1,456	833	1,693
Ireland.	517	908	702	1,331
Other.	3,390	5,814	2,431	4,281
Total	74,006	149,971	63,494	128,616

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. EXPORTS

DOMESTIC FROZEN KING CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	23,866	58,098	11,352	36,985
Canada	3,280	9,535	2,935	10,039
Netherlands	488	3,013	305	2,095
Belgium and Luxembourg	270	1,717	234	1,447
Australia	104	587	149	788
France	57	375	90	660
United Kingdom	74	298	105	440
Mexico	187	360	200	375
Federal Republic of Germany	76	328	70	309
Norway	82	353	54	233
Sweden	60	332	54	198
Other	327	1,413	283	1,203
Total	28,871	76,409	15,831	54,772

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FROZEN SNOW CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	33,156	47,540	31,480	53,633
Australia	93	431	101	488
Belgium and Luxembourg	124	626	60	321
Canada	104	217	128	238
France	74	381	20	112
Republic of Korea	-	-	106	109
Hong Kong	7	36	24	75
Other	184	594	79	239
Total	33,742	49,825	31,998	55,215

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SQUID EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Greece	7,125	1,812	6,320	2,539
Philippines	423	133	2,421	894
Saudi Arabia	70	27	334	119
Canada	20	7	329	114
Australia	18	5	207	87
France	99	77	255	85
United Kingdom	-	-	153	62
Other	718	266	808	220
Total	8,473	2,327	10,827	4,120

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

DOMESTIC FISH AND MARINE ANIMAL OILS EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

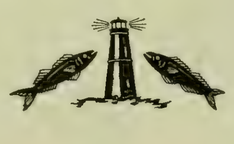
Country	1980		1981	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom.	83,678	14,952	96,790	16,856
Netherlands	86,051	16,314	77,787	13,023
Belgium and Luxembourg. . .	24,411	4,291	17,714	3,151
Sweden.	9,619	1,739	15,734	2,679
Peru.	27,010	5,242	10,792	2,058
Federal Republic of Germany	36,890	6,553	12,026	1,782
Venezuela	9	5	1,098	1,263
Norway.	7	2	2,542	446
Spain	7,925	1,277	2,216	399
Other	8,409	2,020	1,609	915
Total.	284,009	52,395	238,308	42,572

Source:--U.S. Department of Commerce, Bureau of the Census.

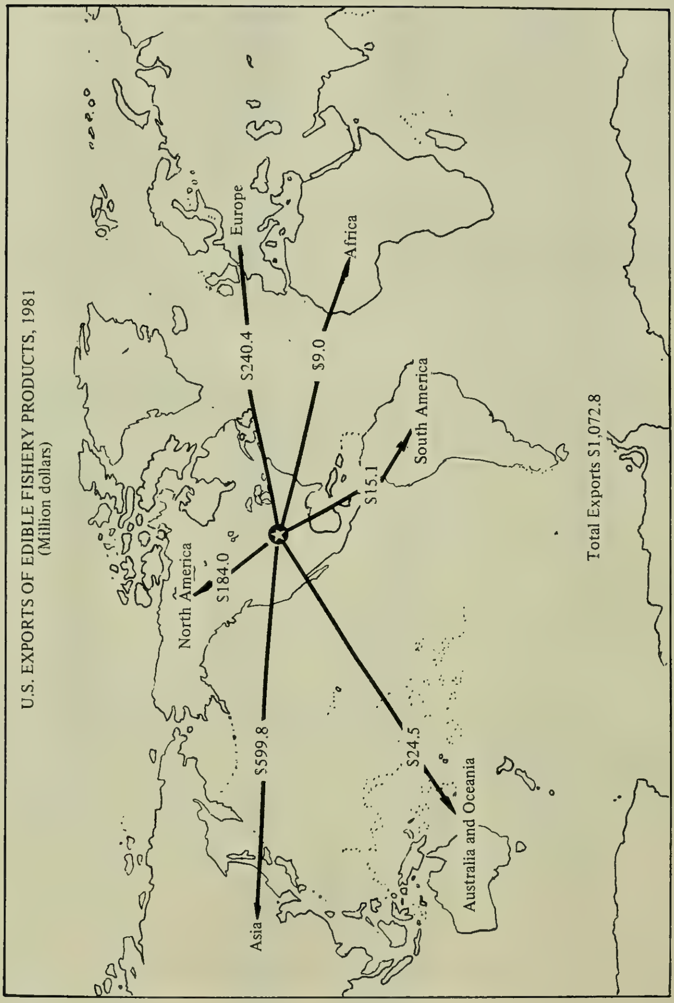
DOMESTIC FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1980 AND 1981

Country	1980		1981	
	Short Tons	Thousand dollars	Short Tons	Thousand dollars
Egypt	9,878	3,875	18,659	8,802
Federal Republic of Germany	49,002	16,763	18,466	7,578
Taiwan.	4,046	1,476	2,198	563
Dominican Republic.	1,656	532	1,604	554
Philippines	6,091	2,069	1,428	521
Belgium and Luxembourg. . .	700	238	775	302
Canada.	1,011	146	1,783	275
Mexico.	1,154	136	1,224	139
Nigeria	196	22	220	132
Ghana	-	-	250	113
Other	11,547	3,880	420	77
Total.	85,281	29,137	47,027	19,056

Source:--U.S. Department Commerce, Bureau of the Census.



U.S. EXPORTS



U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1981
(Million dollars)

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1972-81
(Round-weight)

Year	Domestic commercial landings		Imports (1)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1972	4,806	34.7	9,043	65.3	13,849
1973	4,858	46.8	5,520	53.2	10,378
1974	4,967	50.3	4,908	49.7	9,875
1975	4,877	48.0	5,287	52.0	10,164
1976	5,388	46.5	6,205	53.5	11,593
1977 (2)	5,198	49.1	5,381	50.9	10,579
1978 (2)	6,028	52.4	5,481	47.6	11,509
1979 (2)	6,267	53.0	5,564	47.0	11,831
1980 (2)	*6,482	57.1	4,875	42.9	11,357
1981 (2)	5,977	52.6	5,376	47.4	11,353

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell). *Record. Record imports, 13,221 million lb; record total, 17,381 million lb. in 1968.

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1972-81
(Round-weight)

Year	Domestic commercial landings		Imports (1)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1972	2,435	35.3	4,454	64.7	6,889
1973	2,398	33.7	4,709	66.3	7,107
1974	2,496	37.6	4,142	62.4	6,638
1975	2,465	38.6	3,929	61.4	6,394
1976	2,775	37.5	4,629	62.5	7,404
1977 (2)	2,900	39.1	4,514	60.9	7,414
1978 (2)	3,177	39.1	*4,958	60.9	8,135
1979 (2)	3,318	40.2	4,933	59.8	8,251
1980 (2)	*3,654	45.6	4,352	54.4	8,006
1981 (2)	3,547	42.9	4,720	57.1	*8,267

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary. *Record.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1972-81
(Round-weight)

Year	Domestic commercial landings		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1972	2,371	34.1	4,589	65.9	6,960
1973	2,460	75.2	811	24.8	3,271
1974	2,471	76.3	766	23.7	3,237
1975	2,412	64.0	1,358	36.0	3,770
1976	2,613	62.4	1,576	37.6	4,189
1977 (1)	2,298	72.6	867	27.4	3,165
1978 (1)	2,851	84.5	523	15.5	3,374
1979 (1)	*2,949	82.4	631	17.6	3,580
1980 (1)	2,828	84.4	523	15.6	3,351
1981 (1)	2,430	78.7	656	21.3	3,086

(1) Preliminary. *Record. Record imports in 1968, 9,989 million lb; record total supply, 11,802 million lb.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1980 AND 1981

Item	Domestic commercial landings		Imports (1)		Total	
	1980	1981	1980	1981	1980	1981
	Million pounds, round weight					
Edible fishery products:						
Finfish	2,516	2,414	3,623	3,902	6,139	6,316
Shellfish	1,138	1,133	729	818	1,867	1,951
Total	3,654	3,547	4,352	4,720	8,006	8,267
Industrial fishery products:						
Finfish	2,812	2,412	(2)523	(2)656	3,335	3,068
Shellfish	16	18	(3)	(3)	16	18
Total	2,828	2,430	(2)523	(2)656	3,351	3,086
Total:						
Finfish	5,328	4,826	4,146	4,558	9,474	9,484
Shellfish	1,154	1,151	729	818	1,883	1,969
Total	6,482	5,977	4,875	5,376	11,357	11,353

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1980 AND 1981

Item	Domestic commercial landings		Imports (1)		Total	
	1980	1981	1980	1981	1980	1981
	Million dollars					
Edible fishery products:						
Finfish	1,019	1,096	1,249	1,422	2,268	2,518
Shellfish	1,073	1,181	1,203	1,340	2,276	2,521
Total	2,092	2,277	2,452	2,762	4,544	5,039
Industrial fishery products:						
Finfish	136	100	(2)19	(2)24	155	124
Shellfish	9	11	(3)	(3)	9	11
Total	145	111	(2)19	(2)24	164	135
Total:						
Finfish	1,155	1,196	1,268	1,446	2,423	2,642
Shellfish	1,082	1,192	1,203	1,340	2,285	2,532
Total	2,237	2,388	2,471	2,786	4,708	5,174

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal and sea herring for industrial purposes.

(3) Not available.

Note:--Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1972-81
(Edible weight)

Year	U.S. production		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1972	3,508	1.0	355,459	99.0	358,967
1973	9,865	2.7	358,730	97.3	368,595
1974	4,417	1.6	266,073	98.4	270,490
1975	2,357	.7	313,479	99.3	315,836
1976	1,697	.4	378,742	99.6	380,439
1977	2,138	.6	385,138	99.4	387,276
1978	1,879	.5	406,286	99.5	408,165
1979	4,857	1.2	*408,152	98.8	*413,009
1980	1,205	.4	336,117	99.6	337,322
1981	1,029	.3	344,111	99.7	345,140

*Record.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1972-81
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1972	126,643	24.7	385,127	75.3	511,770
1973	133,359	24.1	419,432	75.9	552,791
1974	132,337	29.6	315,209	70.4	447,546
1975	128,923	25.9	367,948	74.1	496,871
1976	144,274	25.9	413,307	74.1	557,581
1977	160,644	28.8	398,110	71.2	558,754
1978	184,356	30.3	423,749	69.7	608,105
1979	187,167	30.4	*427,526	69.6	614,693
1980	202,062	35.4	369,161	64.6	571,223
1981	*208,350	33.5	414,163	66.5	*622,513

(1) Includes fillets used to produce blocks. *Record.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1972-81
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1972	39,266	15.5	213,255	84.5	252,521
1973	46,974	17.6	220,096	82.4	267,070
1974	45,337	21.5	165,351	78.5	210,688
1975	36,822	15.5	200,356	84.5	237,178
1976	40,564	15.1	228,287	84.9	268,851
1977	59,942	21.6	217,423	78.4	277,365
1978	65,573	22.0	233,106	78.0	298,679
1979	74,568	22.8	252,957	77.2	327,525
1980	66,677	23.2	220,954	76.8	287,631
1981	74,509	22.5	*257,164	77.5	*331,673

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch. *Record. Record U.S. production, 148,786,000 lb in 1951.

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1972-81

Year	Domestic commercial landings			Imports		
	Atlantic, Gulf, Pacific Coast States, and Hawaii	Puerto Rico	Total	Fresh and frozen including cooked loins and discs (1)	Canned	
					In oil	Not in oil
	- - - - - - - - - Round weight	- - - - - - - -			- - Product weight - -	
	- - - - - - - - - - - - - - - -	Thousand pounds	- - - - - - - - - - - - - -			
1972	387,032	(2) 147,668	534,700	764,784	384	56,129
1973	346,571	172,492	519,063	816,739	244	38,382
1974	392,223	165,008	557,231	838,889	233	52,513
1975	392,527	(2)*177,100	569,627	516,735	199	51,472
1976	*490,567	174,346	*664,913	641,121	288	58,605
1977	345,229	123,666	468,895	670,072	178	34,453
1978	408,878	(2) 156,813	565,691	*861,803	207	51,574
1979	364,476	(2) 143,676	508,152	800,178	627	53,076
1980	399,432	(2) 100,606	500,038	767,064	446	63,107
1981	341,149	(2) 148,729	489,878	765,311	268	70,583

(1) Includes landings in American Samoa of foreign-caught fish. (2) Includes a small quantity of fish landed in American Samoa by U.S.-flag vessels. *Record.

U.S. SUPPLY OF CANNED TUNA, 1972-81
(Canned weight)

Year	U.S. pack from domestic commercial landings (1)		U.S. pack from imported fresh and frozen tuna (2)		Total	Imported canned		Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	- Thousand pounds	-	Percent	Thousand pounds
1972. . .	234,000	34.6	385,796	57.0	619,796	56,513	8.4	676,309
1973. . .	224,130	33.2	411,719	61.1	635,849	38,626	5.7	674,475
1974. . .	249,803	35.0	410,542	57.6	660,345	52,746	7.4	713,091
1975. . .	260,785	44.9	268,618	46.2	529,403	51,671	8.9	581,074
1976. . .	*287,003	43.6	312,188	47.4	599,191	58,893	9.0	658,084
1977. . .	206,805	35.5	341,204	58.6	548,009	34,631	5.9	582,640
1978. . .	257,166	34.0	*447,627	59.2	*704,793	51,781	6.8	*756,574
1979. . .	218,493	32.4	401,740	59.6	620,233	53,703	8.0	673,936
1980. . .	214,559	32.2	387,497	58.2	602,056	63,553	9.6	665,609
1981. . .	221,500	31.2	417,527	58.8	639,027	70,851	10.0	709,878

(1) Includes pack from landings by U.S.-flag vessels in Puerto Rico and American Samoa. (2) Includes tuna canned in American Samoa from foreign-caught fish. *Record.

U.S. SUPPLY OF CANNED BONITO AND YELLOWTAIL, 1972-81
(Canned weight)

Year	U.S. pack		Imports				Total supply
			In oil	Not in oil	Total		
	Thousand pounds	Percent	- - - Thousand pounds	- - -		Percent	Thousand pounds
1972	6,633	64.0	2,638	1,094	3,732	36.0	10,365
1973	10,572	88.0	544	895	1,439	12.0	12,011
1974	7,789	95.8	282	59	341	4.2	8,130
1975	13,088	99.2	68	43	111	.8	13,199
1976	3,314	96.5	64	57	121	3.5	3,435
1977	9,494	87.3	17	1,358	1,375	12.7	10,869
1978	3,576	90.2	168	220	388	9.8	3,964
1979	1,491	80.1	300	71	371	19.9	1,862
1980	4,509	84.9	531	273	804	15.1	5,313
1981	5,256	85.6	581	305	886	14.4	6,142

U.S. SUPPLY OF CANNED SARDINES, 1972-81
(Canned weight)

Year	U.S. Pack	Imports			Total Supply	Exports	
		Quantity					
	Quantity	In oil	Not in oil	Total		Domestic	Foreign
	Thousand pounds						
1972	36,540	41,544	28,671	70,215	106,755	3,030	311
1973	23,284	36,089	31,330	67,419	90,703	1,740	244
1974	25,131	29,408	39,729	69,137	94,268	1,691	136
1975	26,008	18,513	12,593	31,106	57,114	2,161	180
1976	24,971	26,891	26,982	53,873	78,844	1,829	77
1977	23,496	25,748	24,288	50,036	73,532	1,186	34
1978	26,376	24,231	24,486	48,717	75,093	1,555	173
1979	30,369	22,878	26,879	49,757	80,126	1,591	301
1980	19,809	18,218	32,960	51,178	70,987	1,839	78
1981	38,164	18,239	37,034	55,273	93,437	1,731	183

U.S. SUPPLY OF CANNED SALMON, 1972-81
(Canned weight)

Year	U.S. pack (1)	Imports	Total	Exports	
				Domestic	Foreign
	Thousand pounds				
1972	92,858	11,647	104,505	21,358	53
1973	71,772	7,859	79,631	16,941	24
1974	87,791	8,553	96,344	8,320	2
1975	78,086	3,265	81,351	22,504	54
1976	125,323	2,521	127,844	19,588	232
1977	150,823	586	151,409	21,275	11
1978	164,279	325	164,604	32,513	33
1979	150,066	434	150,500	50,907	70
1980	201,684	167	201,851	74,006	58
1981	217,693	70	217,763	63,494	199

(1) Record pack was 430,328,000 lb in 1936.

U.S. SUPPLY OF CLAM MEATS, 1972-81
(Meat weight)

Year	U.S. commercial landings					Imports (1)	Total for U.S. consumption
	Hard	Soft	Surf	Other	Total		
	Thousand pounds						
1972	16,153	9,078	63,471	1,987	90,689	5,128	95,817
1973	14,505	8,627	82,370	2,038	107,540	4,267	111,807
1974	14,665	9,590	96,110	1,328	121,693	4,913	126,606
1975	14,995	9,174	86,956	2,262	113,387	2,435	115,822
1976	15,251	10,467	49,158	7,656	82,532	6,705	89,237
1977	15,433	10,683	51,036	19,008	96,160	8,423	104,583
1978	13,295	10,091	39,237	25,088	87,711	6,131	93,842
1979	12,058	8,585	34,912	36,495	92,050	7,273	99,323
1980	13,370	8,948	37,737	35,314	95,369	6,908	102,277
1981	18,118	8,072	46,100	48,341	120,631	9,520	130,151

(1) Imports were converted to meat weight by using these conversion factors: 0.40 for in shell or shucked; 0.30 for canned chowder and juice; and 0.93 for other.

U.S. SUPPLY OF KING CRAB, 1972-81
(Round weight)

Year	U.S. commercial landings	Exports (1)	
		Frozen	Canned
	Thousand pounds		
1972	(2)74,426	(3)	112
1973	76,824	8,278	8,123
1974	95,214	4,431	3,768
1975	97,626	4,746	2,377
1976	105,899	7,173	1,972
1977	99,449	17,819	1,428
1978	121,254	52,966	2,462
1979	149,980	64,187	4,616
1980	183,228	50,524	1,988
1981	86,832	27,704	703

(1) Domestic merchandise. Converted to round (live) weight by using these conversion factors: domestic--frozen, 1.75; and canned 5.33. (2) Data revised since publication of Fishery Statistics of the United States, 1972. (3) Data not available.

Note:--Data on U.S. commercial landings do not include deadloss weight for 1978-81.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1972-81
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)
	Thousand pounds			
1972	(3)30,135	(4)	(3)30,135	(4)
1973	61,719	(4)	61,719	(4)
1974	63,906	(4)	63,906	(4)
1975	46,856	(4)	46,856	(4)
1976	80,771	(4)	80,771	(4)
1977	98,329	(4)	98,329	47,045
1978	128,837	4,460	133,297	67,530
1979	*130,453	4,254	134,707	91,543
1980	121,287	3,732	125,019	71,871
1981	104,619	3,460	108,079	68,155

(1) Converted to round (live) weight by multiplying canned weight by 5.00. (2) Domestic merchandise. Converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections). Data for foreign exports not available. (3) Data revised since publication of Fishery Statistics of the United States, 1972. (4) Data not reported separately.

Note:--Data on U.S. commercial landings do not include deadloss weight for 1978-81. *Record.

U.S. SUPPLY OF CANNED CRABMEAT, 1972-81
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports (1)
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds
1972	2,513	49.7	2,547	50.3	5,060	21
1973	3,724	65.6	1,956	34.4	5,680	1,524
1974	4,358	64.8	2,371	35.2	6,729	707
1975	3,283	69.5	1,440	30.5	4,723	446
1976	3,811	65.0	2,054	35.0	5,865	370
1977	5,013	59.1	3,463	40.9	8,476	268
1978	4,986	55.2	4,053	44.8	9,039	462
1979	4,723	48.2	5,073	51.8	9,796	866
1980	4,554	47.7	5,002	52.3	9,556	373
1981	3,433	40.6	5,019	59.4	8,452	132

(1) Domestic king crab only. Record production was 11,002,000 lb in 1966; record imports were 13,507,000 lb in 1939.

U.S. SUPPLY OF AMERICAN LOBSTERS, 1972-81
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
	Quantity	Percentage of total supply	Quantity			Percentage of total supply	
			Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1972	32,244	52.8	18,811	10,032	28,843	47.2	61,087
1973	28,991	52.9	18,113	7,656	25,769	47.1	54,760
1974	28,543	53.3	17,586	7,392	24,978	46.7	53,521
1975	30,200	52.3	18,325	9,243	27,568	47.7	57,768
1976	31,483	51.9	19,176	9,957	29,133	48.1	60,616
1977	31,708	52.4	16,944	11,818	28,762	47.6	60,470
1978	34,419	55.9	16,468	10,648	27,116	44.1	61,535
1979	37,184	54.5	22,790	8,307	31,097	45.5	68,281
1980	36,952	53.4	22,503	9,699	32,202	46.6	69,154
1981	*37,494	48.2	26,857	13,459	40,316	51.8	*77,810

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. *Record.

U.S. SUPPLY OF SPINY LOBSTERS, 1972-81
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
	Quantity	Percentage of total supply	Quantity			Percentage of total supply	
			Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1972	*12,215	8.0	139,802	428	140,230	92.0	152,445
1973	11,432	8.5	123,219	603	123,822	91.5	135,254
1974	11,708	8.1	132,158	428	132,586	91.9	144,294
1975	7,613	5.1	142,280	504	142,784	94.9	150,397
1976	5,643	3.2	164,859	3,236	*168,095	96.8	*173,738
1977	5,483	3.5	149,156	1,517	150,673	96.5	156,156
1978	4,629	3.1	143,945	563	144,508	96.9	149,137
1979	6,301	4.0	150,470	604	151,074	96.0	157,375
1980	6,861	5.4	119,817	396	120,213	94.6	127,074
1981	6,619	4.9	126,210	978	127,188	95.1	133,807

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50, canned. *Record.

U.S. SUPPLY OF OYSTERS, 1972-81
(Meat weight)

Year	U.S. commercial landings				Imports (1)	Total for U.S. consumption
	Eastern	Pacific	Western	Total		
	Thousand pounds					
1972	47,667	8,362	29	56,058	30,893	86,951
1973	45,333	6,576	22	51,931	26,351	78,282
1974	45,125	5,030	21	50,176	23,634	73,810
1975	47,398	5,807	22	53,227	20,542	73,769
1976	48,010	6,354	31	54,395	23,682	78,077
1977	40,436	5,590	(2)	46,026	29,774	75,800
1978	45,183	5,800	(2)	50,983	33,843	84,826
1979	42,325	5,756	(2)	48,081	27,131	75,212
1980	42,439	6,642	(2)	49,081	21,732	70,813
1981	44,440	5,612	(2)	50,052	25,769	75,821

(1) Imports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75 for other. (2) Not available.

U.S. SUPPLY OF SCALLOP MEATS, 1972-81
(Edible weight)

Year	U.S. commercial landings				Imports	Total for U.S. consumption
	Bay	Calico	Sea	Total		
	Thousand pounds					
1972	2,032	1,352	7,017	10,401	20,820	31,221
1973	1,014	558	6,400	7,972	19,833	27,805
1974	1,499	1,131	6,444	9,074	18,100	27,174
1975	1,648	1,992	10,063	13,703	19,737	33,440
1976	1,590	2,268	19,853	23,711	25,253	48,964
1977	1,703	1,111	25,012	27,826	*29,786	57,612
1978	1,371	948	30,976	33,295	28,367	61,662
1979	1,774	863	31,466	34,103	25,155	59,258
1980	968	-	28,752	29,720	20,885	50,605
1981	670	14,641	30,277	*45,588	26,227	*71,815

*Record.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1972-81
(Heads-off weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)			
				Fresh and frozen		Canned	
				Domestic	Foreign	Domestic	Foreign
	Thousand pounds						
1972	235,852	254,534	490,386	34,201	6,095	17,069	20
1973	228,643	230,780	459,423	*44,172	10,212	*20,097	106
1974	225,529	267,462	492,991	32,719	6,383	13,908	91
1975	209,151	230,963	440,114	33,132	6,586	12,570	10
1976	245,597	*270,720	516,317	27,489	9,138	15,693	181
1977	*288,443	270,406	*558,849	30,785	8,902	18,111	121
1978	256,882	239,044	495,926	41,065	13,308	12,088	146
1979	205,587	267,119	472,706	34,143	5,826	11,047	63
1980	207,869	255,957	463,826	18,770	9,567	11,781	*935
1981	218,900	256,920	475,820	20,777	13,687	9,180	77

(1) Imports were converted to heads-off weight by using these conversion factors: 0.63, breaded; 1.00, shell-on; 1.28, peeled raw; 2.02, canned; and 2.40 for other. (2) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18 and canned, 2.02; foreign--fresh and frozen, 1.00 and canned, 2.52. *Record. Record fresh and frozen foreign exports were 14,699,000 in 1970.

U.S. SUPPLY OF CANNED SHRIMP, 1972-81
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports	
						Domestic	Foreign
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds		
1972	23,795	95.5	1,123	4.5	24,918	8,450	8
1973	*25,228	89.3	3,027	10.7	28,255	*9,949	42
1974	22,121	78.4	*6,107	21.6	28,228	6,885	36
1975	12,407	91.7	1,118	8.3	13,525	6,223	4
1976	19,041	89.0	2,350	11.0	21,391	7,769	72
1977	24,525	89.7	2,809	10.3	27,334	8,966	48
1978	16,806	86.0	2,739	14.0	19,545	5,984	58
1979	9,584	69.1	4,288	30.9	13,872	5,469	25
1980	15,886	79.0	4,225	21.0	20,111	5,832	*371
1981	12,410	73.9	4,383	26.1	16,793	4,545	31

*Record. Record total supply was 29,001,000 in 1970.

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1972-81
(Product weight)

Year	U.S. production (1)		Imports		Total
	Short tons	Percent	Short tons	Percent	Short tons
1972	352,704	47.4	391,998	52.6	744,702
1973	356,235	83.8	68,651	16.2	424,886
1974	369,344	84.4	68,307	15.6	437,651
1975	354,356	75.0	118,395	25.0	472,751
1976	376,248	72.7	140,988	27.3	517,236
1977	343,456	80.7	81,901	19.3	425,357
1978	*444,182	91.0	(2)43,901	9.0	488,083
1979	441,757	83.1	(2)89,613	16.9	531,370
1980	428,763	89.6	(2)49,537	10.4	478,300
1981	382,742	86.6	(2)59,434	13.4	442,176

(1) Includes shellfish meal production. (2) Data do not include imports of fish solubles for 1978-81.

Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half. *Record. Record imports in 1968, 856,172 short tons and total, 1,127,225 short tons.

U.S. SUPPLY OF FISH MEAL, 1972-81
(Product weight)

Year	Domestic production (1)	Imports	Total supply	Exports (2)	Total for U.S. consumption
	Short tons				
1972	285,506	391,955	677,461	18,869	658,592
1973	287,517	68,496	356,013	45,745	310,268
1974	300,714	68,297	369,011	55,522	313,489
1975	290,431	118,371	408,802	12,475	396,327
1976	309,694	140,377	450,071	33,322	416,749
1977	282,291	81,491	363,782	37,199	326,583
1978	362,910	43,901	406,811	54,633	352,178
1979	*374,293	89,613	463,906	16,456	447,450
1980	361,922	49,537	411,459	*86,036	325,423
1981	318,431	59,434	377,865	49,719	328,146

(1) Includes shellfish meal. (2) Includes exports of domestic and foreign fish meal. *Record. Record imports in 1968, 855,285 short tons; total supply and total for U.S. consumption, 1,090,421 short tons.

U.S. SUPPLY OF FISH SOLUBLES, 1972-81
(Product weight)

Year	U.S. production		Imports (1)		Total
	Short tons	Percent	Short tons	Percent	Short tons
1972	134,395	99.9	85	0.1	134,480
1973	137,435	99.8	309	.2	137,744
1974	137,259	100.0	19	(2)	137,278
1975	127,850	100.0	48	(2)	127,898
1976	133,107	99.1	1,221	.9	134,328
1977	122,330	99.3	820	.7	123,150
1978	162,543	100.0	(3)	-	162,543
1979	134,928	100.0	(3)	-	134,928
1980	133,682	100.0	(3)	-	133,682
1981	128,621	100.0	(3)	-	128,621

(1) Includes only fish solubles and will not check with other tables that show total imports of fish solubles and cod-liver solubles for years 1970 to 1977. (2) Less than one-tenth of 1 percent. (3) Data no longer reported separately by the Bureau of the Census.

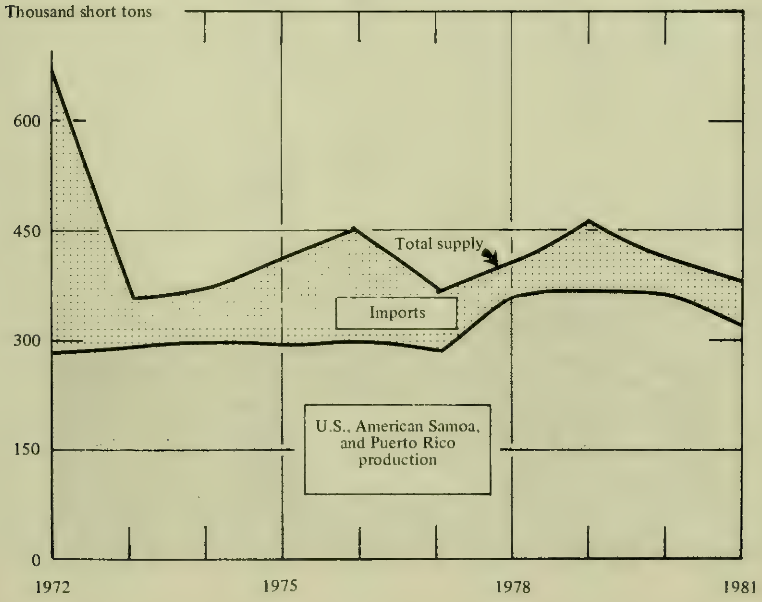
Note:--Record U.S. production in 1959, 165,359 short tons; imports, 26,630 short tons; and total, 191,989 short tons.

U.S SUPPLY OF FISH OILS, 1972-81

Year	Domestic production	Imports (1)	Total supply	Exports	Total for U.S. consumption
	Thousand pounds				
1972	188,445	9,466	197,911	193,198	4,713
1973	224,634	6,733	231,367	247,793	(2)
1974	237,980	12,356	250,336	199,122	51,214
1975	245,653	11,283	256,936	191,843	65,093
1976	204,581	20,937	225,518	179,235	46,283
1977	133,182	13,731	146,913	90,633	56,280
1978	296,287	16,041	312,328	222,012	90,316
1979	267,949	14,463	282,412	198,497	83,915
1980	*312,511	21,350	333,861	284,009	49,852
1981	184,303	18,255	202,558	238,308	(2)

(1) Excludes fish liver oil.
(2) For 1973 and 1981, exports which included prior year stocks, exceeded domestic production plus imports. *Record.

Note:--Does not include exports of foreign merchandise.



U.S. SUPPLY OF FISH MEAL, 1972-81)
(Domestic production plus imports)

PRICES

INDEXES OF EXVESSEL PRICES

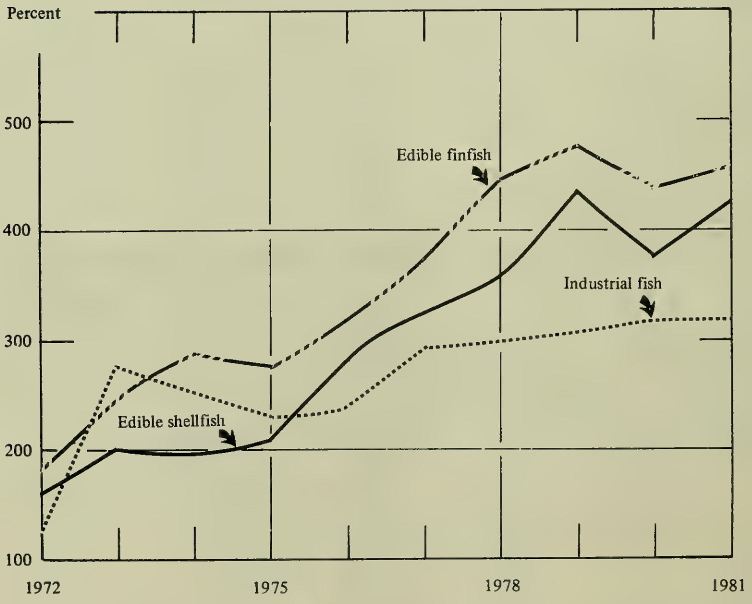
The tables that follow show indexes of exvessel prices prepared by the National Marine Fisheries Service. Most of the prices used in calculating the "Indexes of Exvessel Prices for Fish and Shellfish" are based on monthly landings and value data. In a few cases, prices are obtained from Fishery Market News Reports and Market News Offices. The index for each species is calculated by multiplying the current monthly price by the total quantity caught in 1967 (the base year) to obtain a value for the current month. That value is then divided by the 1967 average monthly value to obtain the final index:

$$\frac{\text{(Current price X 1967 quantity)}}{\text{1967 average monthly value}} = \text{Index for each species}$$

To calculate the index for salmon, tuna, New England finfish, and other shellfish, the current monthly values for each of these species are added together and divided by the aggregate 1967 average monthly values for the group. To calculate monthly indexes for edible finfish, edible shellfish, edible fish, industrial fish, and all fish, the index number for each species is multiplied by a factor representing its importance in the total exvessel value of all species of fish and shellfish for the period 1966-70; the sum of these products is the index number for the group of species.

Each index number calculated for years other than the base year of 1967 measures price changes from the reference period (1967) which equals 100. An increase of 85 percent from the reference period in the index, for example, is shown as 185.0. This change can also be expressed in dollars, as follows: The price of a species of fish that sold in the United States for $1.00 per pound in 1967 has increased to $1.85 per pound.

INDEXES OF EXVESSEL PRICES, 1972-81
(1967 = 100)



PRICES

EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1976-81
(1967=100)

Species or group	1976	1977	1978	1979	1980	1981 (1)
New England finfish:						
Cod.	312.5	284.6	287.5	335.7	325.0	402.1
Haddock.	290.2	246.8	241.0	299.7	285.2	304.4
Yellowtail flounder. . .	399.3	432.4	558.2	497.7	438.3	500.5
Other flounders.	381.0	278.3	352.6	346.3	299.4	359.0
Ocean perch.	347.1	391.5	440.1	544.3	615.9	737.7
Pollock.	255.9	267.9	307.4	376.8	346.2	425.8
Whiting.	180.8	213.6	307.6	365.6	384.9	348.5
New England finfish .	305.7	298.9	343.9	373.9	357.0	401.6
Red snapper.	275.5	330.8	389.0	455.7	504.5	540.9
Pacific halibut.	463.3	494.8	550.6	674.6	506.3	496.9
Salmon:						
Chinook - troll.	312.7	404.4	401.2	468.4	448.9	503.8
Chinook - nontroll . . .	369.0	564.2	548.9	642.6	553.5	539.6
Chum	564.2	664.6	738.8	815.3	658.8	651.5
Coho - troll	287.1	330.2	346.2	454.7	411.2	380.7
Coho - nontroll.	370.0	478.0	538.5	507.4	569.6	472.6
Pink	275.1	378.6	402.8	350.4	360.2	359.6
Sockeye.	452.4	490.4	781.8	819.1	486.9	490.4
Salmon.	380.9	459.0	572.6	615.4	479.0	470.8
Tuna:						
Albacore	246.0	286.0	316.3	338.1	398.0	457.7
Skipjack	246.6	316.8	353.4	355.0	485.2	493.3
Bluefin.	225.6	285.7	323.9	346.0	427.1	468.4
Yellowfin.	209.5	209.5	297.8	315.6	420.3	425.8
Tuna.	228.6	286.8	318.8	332.9	434.4	453.6
Edible finfish . .	319.7	370.7	448.3	476.4	439.1	453.5
Shrimp	298.0	301.5	313.1	452.3	369.4	397.2
Other shellfish:						
Hard clams	204.5	229.1	265.9	330.4	400.0	429.4
Soft clams	310.2	342.7	364.7	432.7	458.7	466.0
Surf clams	482.6	517.7	521.7	522.2	509.0	510.4
Hard blue crabs.	383.9	440.5	372.3	376.6	361.0	397.9
King crabs	659.6	923.1	1,267.0	1,283.1	855.4	1,304.8
American lobsters. . . .	216.3	245.1	264.3	262.8	278.1	304.0
Eastern oysters.	152.5	173.6	171.1	186.4	192.2	194.6
Sea scallops	247.2	216.0	327.2	439.4	535.2	539.0
Other shellfish. . . .	281.6	336.6	393.7	419.6	383.2	456.9
Edible shellfish. .	289.7	319.4	354.2	435.6	376.4	427.7
Edible fish.	303.9	343.7	398.7	454.9	406.1	439.9
Industrial fish.	234.8	292.6	293.6	305.1	315.6	314.1
Menhaden	234.8	292.6	293.6	305.1	315.6	314.1
All fish	299.1	340.1	391.4	444.6	399.9	431.0

(1) Preliminary.

Note:--Simple averages of the 12 monthly indexes. Upward or downward changes in this index will not necessarily agree with changes in unit values shown in landings tables.

EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1981
(1967=100)

Species or group	Jan.	Feb.	Mar.	Apr.	May	June
New England finfish:						
Cod	475.1	336.7	463.3	429.3	245.2	297.9
Haddock	322.0	233.1	342.6	337.7	191.1	210.8
Yellowtail flounder	536.9	676.7	631.6	575.7	433.1	459.3
Other flounders	368.1	391.3	375.4	322.5	212.3	297.8
Ocean perch	825.4	812.7	840.7	845.8	807.6	802.5
Pollock	345.2	424.8	509.3	445.0	335.0	350.3
Whiting	326.5	269.3	352.0	369.0	250.2	411.4
New England finfish	428.9	403.9	458.7	435.9	303.6	348.5
Red snapper	499.9	511.0	527.7	591.5	569.3	549.9
Pacific halibut	460.0	460.0	460.0	460.0	460.0	477.7
Salmon:						
Chinook - troll	424.2	424.2	424.2	424.2	572.7	540.9
Chinook - nontroll	498.1	498.1	498.1	498.1	738.0	738.0
Chum	655.1	655.1	655.1	655.1	655.1	655.1
Coho - troll	367.4	367.4	367.4	367.4	367.4	391.9
Coho - nontroll	549.5	549.5	549.5	549.5	549.5	549.5
Pink	314.4	314.4	314.4	314.4	510.8	345.8
Sockeye	213.2	213.2	213.2	213.2	213.2	682.3
Salmon	363.5	363.5	363.5	363.5	427.3	562.8
Tuna:						
Albacore	432.4	432.4	432.4	432.4	432.4	475.8
Skipjack	493.3	493.3	493.3	493.3	493.3	493.3
Bluefin	468.4	468.4	468.4	468.4	468.4	468.4
Yellowfin	425.8	425.8	425.8	425.8	425.8	425.8
Tuna	448.3	448.3	448.3	448.3	448.3	457.4
Edible finfish	411.0	405.9	418.2	414.8	411.7	480.2
Shrimp	339.2	401.0	419.1	434.9	431.6	421.6
Other shellfish:						
Hard clams	472.3	491.6	441.7	329.5	380.3	407.7
Soft clams	497.1	443.8	373.7	381.8	378.6	413.6
Surf clams	520.4	484.5	491.7	504.0	541.0	502.0
Hard blue crabs	384.2	423.1	539.9	594.0	563.6	443.4
King crabs	1,068.4	1,068.4	1,068.4	1,068.4	1,068.4	1,068.4
American lobsters	411.7	482.5	429.2	338.9	264.8	299.0
Eastern oysters	238.7	216.0	189.1	188.5	187.6	190.4
Sea scallops	691.5	668.0	636.2	607.1	518.1	510.7
Other shellfish	477.2	485.2	463.9	433.2	417.4	431.3
Edible shellfish	409.6	443.9	441.9	434.0	424.4	426.5
Edible fish	410.3	425.9	430.7	424.9	418.4	451.9
Industrial	323.7	323.7	323.7	313.1	322.0	301.8
Menhaden	323.7	323.7	323.7	313.1	322.0	301.8
All fish	404.3	418.8	423.3	415.8	410.7	441.6

(Continued)

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1981 - Continued
(1967=100)

Species or group	July	Aug.	Sept.	Oct.	Nov.	Dec.
New England finfish:						
Cod	342.5	419.9	441.0	478.6	429.3	466.8
Haddock	243.8	277.6	286.6	387.1	414.3	406.0
Yellowtail flounder	524.2	430.4	449.3	429.5	423.2	435.8
Other flounders	408.0	385.5	398.6	353.6	392.0	402.9
Ocean perch	616.5	596.1	626.7	657.3	715.9	705.7
Pollock	416.2	450.1	485.6	433.2	451.7	463.6
Whiting	413.5	358.4	441.1	343.5	328.7	318.1
New England finfish	379.5	374.5	395.9	420.0	433.1	436.7
Red snapper	536.0	536.0	547.1	558.2	536.0	527.7
Pacific halibut	530.8	530.8	530.8	530.8	530.8	530.8
Salmon:						
Chinook - troll	530.2	540.9	540.9	540.9	540.9	540.9
Chinook - nontroll	664.2	738.0	553.5	313.6	369.0	369.0
Chum	698.8	698.8	698.8	698.8	655.1	436.7
Coho - troll	355.1	416.3	391.9	391.9	391.9	391.9
Coho - nontroll	505.5	263.7	549.5	505.5	329.6	219.8
Pink	392.9	392.9	353.7	353.7	353.7	353.7
Sockeye	724.9	682.3	682.3	682.3	682.3	682.3
Salmon	570.4	555.8	551.3	526.7	514.4	487.3
Tuna:						
Albacore	475.8	475.8	475.8	475.8	475.8	475.8
Skipjack	493.3	493.3	493.3	493.3	493.3	493.3
Bluefin	468.4	468.4	468.4	468.4	468.4	468.4
Yellowfin	425.8	425.8	425.8	425.8	425.8	425.8
Tuna	457.4	457.4	457.4	457.4	457.4	457.4
Edible finfish	492.1	485.0	488.1	483.6	480.8	470.2
Shrimp	382.4	329.9	373.7	426.1	405.1	401.9
Other shellfish:						
Hard clams	462.6	441.3	363.3	440.4	440.6	481.6
Soft clams	477.3	547.7	509.1	531.9	511.8	526.2
Surf clams	496.8	513.3	657.0	646.7	423.9	342.9
Hard blue crabs	409.6	343.6	308.0	250.5	236.9	277.6
King crabs	1,068.4	1,068.4	1,239.3	1,940.1	1,965.8	1,965.8
American lobsters	228.2	205.1	217.1	235.0	244.5	292.6
Eastern oysters	171.5	149.6	192.8	197.3	194.4	219.0
Sea scallops	458.7	421.9	493.9	529.2	474.1	458.8
Other shellfish	401.5	382.3	417.3	523.8	514.0	536.2
Edible shellfish	392.1	356.6	396.0	475.9	460.6	470.4
Edible fish	439.4	417.3	439.6	479.5	470.2	470.3
Industrial fish	321.2	322.8	339.8	358.4	279.2	240.3
Menhaden	321.2	322.8	339.8	358.4	279.2	240.3
All fish	431.3	410.9	432.7	471.2	457.0	454.4

Note:--Data are preliminary. Monthly prices for species representing about 70 percent of the landed value of all fish and shellfish during recent years have been combined into index groups to indicate movement of exvessel prices.

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1981

Group, subgroup, and item specification	Point of pricing	Unit	Jan.	Feb.	Mar.	Apr.	May	June
			Dollars					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh.	Boston	lb	1.11	0.71	0.96	1.10	0.35	0.46
Halibut, western 20-80 lb, dressed, fresh and frozen. . . .	New York	lb	2.05	2.05	2.14	2.15	1.90	1.90
Salmon, king, large and medium, dressed, fresh and frozen. . . .	New York	lb	1.50	1.50	1.50	1.55	2.20	2.20
Whitefish, Lake Superior, drawn, fresh.	Chicago	lb	2.30	2.85	2.78	2.38	1.18	1.32
Yellow pike, Lakes Michigan and Huron, round, fresh.	New York	lb	2.60	2.15	2.50	2.35	2.35	2.35
PROCESSED, FRESH (fish and shellfish):								
Fillets, haddock, small, skin on, 20-lb tins	Boston	lb	2.88	1.40	2.70	2.92	1.25	1.30
Shrimp, large (26-30 count), headless, fresh.	New York	lb	4.75	4.75	4.75	4.75	4.75	4.75
Oysters, shucked, standards . . .	Norfolk	gal	20.00	20.00	20.00	19.50	20.00	20.00
PROCESSED, FROZEN (fish and shellfish):								
Fillets: Cod, skinless, Canadian, 1-lb package	Boston	lb	-	1.16	1.16	1.16	1.16	1.15
Flounder, skinless, 1-lb package	Boston	lb	1.58	1.58	1.58	1.58	1.58	1.58
Ocean perch, large, skin on, 1-lb package	Boston	lb	1.02	1.02	1.05	1.00	1.00	1.00
Shrimp, large (26-30 count), brown, 5-lb package.	Chicago	lb	4.32	4.68	4.82	4.92	4.95	4.82
Shrimp, raw, breaded (15-20 count), 4-lb package	Selected areas	lb	3.66	3.69	3.70	3.77	3.81	3.79
Fish blocks, cod, raw, 13-1/2 - 16-lb carton	Selected areas	lb	1.14	1.14	1.15	1.13	1.14	1.10
Fish sticks, cod, precooked, breaded, 1/2-1-lb package. . . .	Selected areas	lb	1.30	1.30	1.30	1.45	1.52	1.52
Fish portions, cod, raw, breaded, 6-lb package.	Selected areas	lb	1.31	1.31	1.33	1.34	1.34	1.34
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall (16-oz) 48 cans/case	Seattle	case	86.00	86.00	86.00	86.00	86.00	86.00
Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case.	Los Angeles	case	44.75	44.75	44.75	44.75	44.75	44.75
Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case.	New York	case	36.00	36.00	36.00	36.00	36.00	38.00

(Continued)

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1981 - Continued

Group, subgroup, and item specification	Point of pricing	Unit	July	Aug.	Sept.	Oct.	Nov.	Dec.
			- - - - - - - - - Dollars - - - - - - - - -					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh.	Boston	lb	0.60	0.60	0.60	0.70	0.45	0.61
Halibut, western, 20-80 lb, dressed, fresh or frozen	New York	lb	1.90	1.95	1.88	1.85	1.86	1.80
Salmon, king, large and medium, dressed, fresh or frozen	New York	lb	2.20	2.20	1.90	2.20	2.20	2.20
Whitefish, Lake Superior, drawn, fresh.	Chicago	lb	1.32	1.32	1.40	1.54	1.51	1.51
Yellow pike, Lakes Michigan and Huron, round, fresh.	New York	lb	2.35	2.35	2.35	2.35	2.05	2.05
PROCESSED, FRESH (fish and shellfish):								
Fillets, haddock, small, skin on, 20-lb tins	Boston	lb	1.32	1.62	1.85	1.85	1.45	1.92
Shrimp, large (26-30 count), headless, fresh.	New York	lb	4.75	4.15	4.35	4.50	4.60	4.90
Oysters, shucked, standards . . .	Norfolk	gal	19.50	20.00	20.50	21.00	21.00	21.25
PROCESSED, FROZEN (fish and shellfish):								
Fillets: Cod, skinless, Canadian, 1-lb package	Boston	lb	1.10	1.08	1.08	1.08	1.08	1.08
Flounder, skinless, 1-lb package	Boston	lb	1.48	1.48	1.38	1.38	1.45	1.45
Ocean perch, large, skin on, 1-lb package.	Boston	lb	1.00	1.00	1.00	1.05	1.03	1.10
Shrimp, large (26-30 count), brown, 5-lb package.	Chicago	lb	4.40	3.52	3.85	3.95	4.50	4.40
Shrimp, raw, breaded (15-20 count), 4-lb package	Selected areas	lb	3.91	3.76	3.71	3.71	3.71	3.71
Fish blocks, cod, raw, 13-1/2 - 16-lb carton	Selected areas	lb	1.08	1.04	0.99	1.00	1.04	1.10
Fish sticks, cod, precooked, breaded, 1/2 - 1-lb package. . .	Selected areas	lb	1.52	1.52	1.52	1.52	1.52	1.55
Fish portions, cod, raw, breaded, 6-lb package	Selected areas	lb	1.33	1.33	1.33	1.33	1.24	1.28
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall (16-oz) 48 cans/case	Seattle	case	86.00	86.00	86.00	81.50	81.50	81.50
Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case.	Los Angeles	case	44.75	45.25	45.25	45.25	45.25	45.25
Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case	New York	case	38.00	38.00	38.00	42.00	42.00	42.00

Note:--These are average prices for one day (Monday, Tuesday, or Wednesday) during the week in which the 13th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Fishery Market News Reports should be referred to for actual prices. (See page 116 for information on these reports, and how they can be obtained.)

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

PRICES

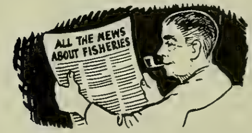
WHOLESALE

WHOLESALE PRICE INDEXES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1981

Group	Jan.	Feb.	Mar.	Apr.	May	June
	- - - - - - - - - -	- - - - -	Index (1967=100)	- - - - -	- - - - -	- - - - -
All fish and shellfish (fresh, frozen, and canned)	373.0	371.5	382.0	387.1	386.4	386.6
Fresh and frozen fishery products	409.6	414.5	393.0	399.6	398.6	398.4
Drawn, dressed, or whole finfish	424.5	417.6	433.1	438.4	453.6	460.1
Processed, fresh (fish and shellfish)	409.7	371.8	405.2	410.0	367.9	369.2
Processed, frozen (fish and shellfish)	365.3	378.3	384.6	392.7	395.8	390.8
Canned fishery products	365.1	365.1	365.1	365.1	365.1	371.1

Group	July	Aug.	Sept.	Oct.	Nov.	Dec.
	- - - - - - - - - -	- - - - -	Index (1967=100)	- - - - -	- - - - -	- - - - -
All fish and shellfish (fresh, frozen, and canned)	382.9	367.2	362.6	375.6	379.1	383.4
Fresh and frozen fishery products	393.7	372.7	366.8	383.2	387.7	393.2
Drawn, dressed, or whole finfish	465.4	469.2	427.3	468.8	459.2	460.8
Processed, fresh (fish and shellfish)	368.8	340.2	359.4	369.8	365.7	397.1
Processed, frozen (fish and shellfish)	378.2	343.4	351.0	354.7	371.2	370.5
Canned fishery products	366.8	370.0	370.0	371.1	371.1	371.1

Source:--U.S. Department of Labor, Bureau of Labor Statistics.


ALL THE NEWS ABOUT FISHERIES

PRICES

RETAIL

RETAIL PRICES OF FISHERY PRODUCTS, BY MONTHS, 1981

ITEM	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	Dollars per pound											
FRESH												
Cod fillets	2.92	2.60	2.48	2.37	2.43	2.18	2.41	2.58	2.62	2.48	2.68	2.64
Flounder fillets	3.50	3.61	3.22	3.27	2.86	2.43	3.14	2.93	2.86	3.53	2.72	2.88
Haddock fillets	3.73	2.95	2.89	2.91	2.28	2.35	2.67	2.38	2.99	2.63	3.25	2.78
Ocean perch fillets	2.42	2.41	2.97	2.59	2.16	2.49	3.03	2.10	2.12	2.56	2.26	2.12
Sole fillets	3.51	3.24	3.40	3.21	3.35	2.87	3.24	3.35	3.62	3.47	3.39	3.49
RAW FROZEN												
Cod fillets, 1 lb. pkg.	2.08	2.06	2.20	2.20	2.15	2.18	2.22	2.23	2.16	2.18	2.22	2.28
Flounder fillets, 1 lb. pkg.	2.78	2.90	2.88	2.85	2.84	2.90	2.83	2.84	2.85	2.93	2.93	2.90
Haddock fillets, 1 lb. pkg.	2.59	2.63	2.64	2.58	2.57	2.62	2.64	2.65	2.59	2.59	2.60	2.67
Halibut steaks	5.54	5.12	4.70	4.71	4.95	5.18	4.59	4.33	4.41	4.26	3.98	3.91
Ocean perch fillets, 1 lb. pkg.	2.17	2.18	2.08	2.14	2.19	2.16	2.14	2.13	2.09	2.15	2.25	2.24
Turbot fillets, 1 lb. pkg	1.87	1.94	1.91	1.93	2.09	2.06	2.06	2.05	2.08	2.05	2.15	2.24
King crab meat, 6 oz. pkg	14.84	14.85	14.75	14.53	14.40	14.27	14.07	14.56	14.45	14.81	14.90	14.90
BREADED, COOKED												
Fish sticks, breaded, 14 oz. pkg	2.14	2.13	2.14	2.17	2.30	2.39	2.35	2.42	2.39	2.33	2.42	2.42
Fish portions, breaded, 14 oz. pkg	2.14	2.07	2.12	2.10	2.15	2.27	2.23	2.24	2.25	2.26	2.40	2.41
Shrimp breaded, fantail	4.75	4.64	4.60	5.10	5.28	4.97	5.17	5.12	4.97	5.11	5.23	5.03
CANNED												
Tuna, solid, white, in water, 7 oz. can	3.44	3.47	3.44	3.46	3.38	3.38	3.41	3.47	3.46	3.50	3.48	3.45
Tuna, chunk, light, in oil, 6–1/2 oz. can	2.61	2.56	2.50	2.49	2.34	2.39	2.26	2.40	2.32	2.36	2.24	2.41
Salmon, pink, 1 lb. can	2.36	2.42	2.49	2.47	2.46	2.47	2.46	2.44	2.45	2.46	2.51	2.49
Salmon, red, 1 lb. can	3.28	3.32	3.40	3.30	3.40	3.40	3.40	3.46	3.43	3.48	3.47	3.44
Sardines, Maine, single layer, soybean oil, 3–3/4 oz. can	2.42	2.36	2.43	2.36	2.39	2.35	2.36	2.33	2.35	2.39	2.40	2.31
Sardines, Norway, single layer, soybean oil, 3–3/4 oz. can	4.03	4.04	4.02	3.98	4.06	4.11	4.12	4.08	3.99	4.06	4.10	4.11
Shrimp, small, 4–1/2 oz. can	7.48	7.20	7.56	7.42	7.57	7.43	7.72	7.49	7.44	7.42	6.98	7.43

INDEX OF RETAIL PRICES, BY MONTHS, 1981
1977 = 100

ITEM	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Fish	146.0	143.6	145.3	146.0	147.0	149.2	146.4	147.3	147.8	147.9	150.3	149.8
Meat	154.4	153.7	151.4	147.5	148.7	148.1	149.7	150.8	151.6	152.4	150.8	149.0
Poultry	133.3	131.3	133.0	129.7	128.3	132.7	136.7	136.3	132.3	130.3	125.3	120.0

Note:--The retail prices and indexes are based on an informal monthly survey of retail prices of fish and other items in three retail grocery stores in each of ten cities. All items in each index are given equal weight. The indexes are not seasonally adjusted.

Source:--Operation Price Watch, National Marine Fisheries Service, Fisheries Development Division, Washington, D.C. 20235,
Phone: (202) 634-7385.

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1980 AND 1981

Year and item	Domestic		Imports (1)		Total margin	Value-added rate (2)	Value added (3) (contribution to the economy as GNP)	
	Sales	Margin	Sales	Margin			Total	Percentage of total
	Million dollars					Percent	Million dollars	Percent
1 9 8 0 (Revised):								
Domestic landings	2,237	-	-	-	-	-	-	-
Industrial fish (4)	145	-	-	-	-	-	-	-
Edible fish (harvesting bill)	2,092	-	-	-	2,092	70.00	1,464	21.43
Exports (unprocessed) (5)	201	-	-	-	-	-	-	-
Total domestic sales	1,891	(1,891)	-	-	-	-	-	-
To be processed	1,296	-	-	-	-	-	-	-
Unprocessed to wholesaler	595	-	-	-	-	-	-	-
Imports	-	-	2,686	(2,686)	-	-	-	-
To be processed	-	-	741	-	-	-	-	-
To trade dealers	-	-	1,945	-	-	-	-	-
Processing level (6)	2,770	1,474	1,269	527	2,001	63.70	1,275	18.67
Exports (processed) (7)	703	-	-	-	-	-	-	-
Domestic sales	2,067	-	-	-	-	-	-	-
Wholesale level (8)	3,220	558	3,759	545	1,103	65.25	720	10.54
Channels to consumers:								
Retail stores (9)	1,646	368	2,469	552	920	82.60	760	11.13
Public eating places (10)	3,918	2,137	3,556	1,940	4,077	60.80	2,479	36.30
Institutions (11)	266	105	372	147	252	52.30	132	1.93
Consumer expenditures: (12)								
Sales through three channels	5,830	-	6,397	-	-	-	-	-
Landings (or imports) plus margins at five levels minus exports	-	5,830	-	6,397	-	-	-	-
Fisherman's share of a consumer's dollar for fish when exports are included	(32.0%)	-	-	-	-	-	-	-
Total consumer expenditures	(47.7%)	12,227		(52.3%)	-	-	-	-
Total value added (contribution to the economy as GNP)	-	-	-	-	-	-	6,830	100.00
1 9 8 1 (Preliminary):								
Domestic landings	2,388	-	-	-	-	-	-	-
Industrial fish (4)	111	-	-	-	-	-	-	-
Edible fish (harvesting bill)	2,277	-	-	-	2,277	70.50	1,605	21.26
Exports (unprocessed) (5)	327	-	-	-	-	-	-	-
Total domestic sales	1,950	(1,950)	-	-	-	-	-	-
To be processed	1,441	-	-	-	-	-	-	-
Unprocessed to wholesaler	509	-	-	-	-	-	-	-
Imports	-	-	3,034	(3,034)	-	-	-	-
To be processed	-	-	806	-	-	-	-	-
To trade dealers	-	-	2,228	-	-	-	-	-
Processing level (6)	3,083	1,643	1,391	585	2,228	64.20	1,430	18.94
Exports (processed) (7)	746	-	-	-	-	-	-	-
Domestic sales	2,337	-	-	-	-	-	-	-
Wholesale level (8)	3,444	598	4,239	621	1,219	66.05	805	10.66
Channels to consumers:								
Retail stores (9)	1,762	394	2,785	623	1,017	83.40	848	11.23
Public eating places (10)	4,190	2,285	4,010	2,187	4,472	60.75	2,717	35.99
Institutions (11)	284	112	420	165	277	52.20	145	1.92
Consumer expenditures: (12)								
Sales through three channels	6,236	-	7,215	-	-	-	-	-
Landings (or imports) plus margins at five levels minus exports	-	6,236	-	7,215	-	-	-	-
Fisherman's share of a consumer's dollar for fish when exports are included	(32.6%)	-	-	-	-	-	-	-
Total consumer expenditures	(46.4%)	13,451		(53.6%)	-	-	-	-
Total value added (contribution to the economy as GNP)	-	-	-	-	-	-	7,550	100.00

See footnotes on next page.

(Continued)

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1980 AND 1981 - Continued

FOOTNOTES

(1) For imported fishery products, the margin and sales values at different levels are calculated in the same manner as they are done for the domestic production column, except that the markup rate at the processor level is 0.7111 in1980 and 0.7253 in 1981; at the wholesale level the markup rate is 0.1696 in 1980 and 0.1716 in 1981. In 1980 and 1981 the distribution rate for imported products is 51 percent at retail stores, 43 percent at eating places, and 6 percent at institutions.

(2) Value-added rate at each level is the weighted average of all fishery products, expressed as a percentage of its corresponding margin.

(3) Multiply each item under the total margin column by its corresponding value under the value-added rate column to get the actual value added as contribution to the economy from all production and distribution levels of the U.S. fishing industry in the food fish sector.

(4) Value of landings of fish for industrial purposes is deducted.

(5) Exports of unprocessed fish are deducted from the value of the landings after being converted to an equivalent value for domestic landings.

(6) Processor's purchase value (or domestic sales at the harvesting level) times the processor's markup rate (weighted average for all fishery products is 1.1378 in 1980 and 1.1401 in 1981) equals the margin at the processor's level.

(7) Exports of processed products are deducted at their export value from this level.

(8) Wholesale purchase value (processors domestic sales and unprocessed products from domestic landings) times the weighted average of markup rates (0.2095 for 1980 and 0.2100 for 1981).

(9) In 1980 and 1981, 39.7 percent of wholesale sales value of domestic products is distributed to retailers. This value times the weighted average of markup rates (0.2878 in 1980 and 0.2882 in 1981) at the retail level equals the margin at retail.

(10) In 1980 and 1981, 55.3 percent of wholesale sales value of domestic products is distributed to public eating places. At a markup rate of 1.200 for 1980 and 1981, the margin and sales values at this level are obtained.

(11) For domestic products, 5 percent of wholesale sales value is distributed to institutions with a markup rate of 0.6520 in 1980 and 0.6510 in 1981; the margin and sales values at this level are then calculated.

(12) Consumer expenditures are the total sales value at retail stores, public eating places, and institutions. This total is also the sum of margins of five marketing levels and the landings value after export value is deducted.

Note:--The concept and derivation of value-added, markup rates, and consumer expenditures for edible fishery products are discussed in two comprehensive reports: Cost Analyses of U.S. Fish Price Margins, 1972-77, at Different Production and Distribution Levels and Marketing Bill and Its Cost Components of U.S. Food Fish Products, both prepared by Erwin S. Penn (202-634-7111) of the Economic Analysis Staff, Office of Policy and Planning, Fx53.

A detailed discussion of the procedures for calculating the results of this table appeared in a paper Value Added, Margins, and Consumer Expenditures for Edible Fishery Products in the United States 1976-78, by Erwin S. Penn and Wenona J. Crews, published in the December 1979 issue of the Marine Fisheries Review, NMFS, NOAA.

PER CAPITA USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round-weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports (see page 67).

Per capita use figures are not comparable with per capita consumption data (see page 89). Per capita consumption figures represent edible (for human use) meat-weight consumption rather than round-weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks, defense purchases, and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1950-81

Year	Total population including armed forces overseas July 1	Total U.S. supply (1)	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	- - - - - - - - - -	Pounds	- - - - - - - - - -
1950.	152.3	6,547	32.2	10.8	43.0
1951.	154.9	6,757	28.6	15.0	43.6
1952.	157.6	7,636	28.1	20.4	48.5
1953.	160.2	7,015	28.0	15.8	43.8
1954.	163.0	7,593	29.2	17.4	46.6
1955.	165.9	7,121	29.0	13.9	42.9
1956.	168.9	7,569	31.2	13.6	44.8
1957.	172.0	7,164	27.9	13.8	41.7
1958.	174.9	7,526	27.1	15.9	43.0
1959.	177.8	8,460	28.8	18.8	47.6
1960.	180.7	8,223	27.3	18.2	45.5
1961.	183.7	9,570	28.2	23.9	52.1
1962.	186.5	10,408	28.7	27.1	55.8
1963.	189.2	11,434	25.6	34.8	60.4
1964.	191.9	12,031	23.7	39.0	62.7
1965.	194.3	10,535	24.6	29.6	54.2
1966.	196.6	12,469	22.2	41.2	63.4
1967.	198.7	13,991	20.4	50.0	70.4
1968.	200.7	17,381	20.7	65.9	86.6
1969.	202.7	11,847	21.4	37.0	58.4
1970.	205.1	11,474	24.0	31.9	55.9
1971.	207.7	11,804	24.1	32.7	56.8
1972.	209.9	13,849	22.9	43.1	66.0
1973.	211.9	10,378	22.9	26.1	49.0
1974.	213.9	9,875	23.2	23.0	46.2
1975.	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977 (2). . .	220.2	10,579	23.6	24.4	48.0
1978 (2). . .	222.6	11,509	27.1	24.6	51.7
1979 (2). . .	225.1	11,831	27.9	24.7	52.6
1980 (2). . .	227.7	11,357	28.5	21.4	49.9
1981 (2). . .	229.8	11,353	26.0	23.4	49.4

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round-weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

(2) Domestic landings data used in calculating these data are preliminary.

Note:--From 1970 through 1980, population and per capita utilization data were revised to reflect the results of the 1980 census.

PER CAPITA CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, exports, and military purchases, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-81

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	Pounds, edible meat			
1909 (5)	90.5	4.3	2.7	*4.0	11.0
1910	92.4	4.5	2.8	3.9	11.2
1911	93.9	4.8	2.8	3.7	11.3
1912	95.3	5.0	2.9	3.4	11.3
1913	97.2	5.3	2.9	3.3	11.5
1914	99.1	5.6	3.0	3.1	11.7
1915	100.5	5.8	2.4	3.0	11.2
1916	102.0	6.0	2.2	2.8	11.0
1917	103.3	6.2	2.0	2.7	10.9
1918	103.2	6.4	2.0	2.5	10.9
1919	104.5	6.4	2.8	2.4	11.6
1920	106.5	6.3	3.2	2.3	11.8
1921	108.5	6.2	2.2	2.1	10.5
1922	110.0	6.1	3.2	2.0	11.3
1923	111.9	6.0	2.9	1.8	10.7
1924	114.1	6.1	3.2	1.7	11.0
1925	115.8	6.3	3.2	1.6	11.1
1926	117.4	6.6	3.4	1.4	11.4
1927	119.0	7.0	3.9	1.3	12.2
1928	120.5	7.1	3.9	1.1	12.1
1929	121.8	6.9	3.9	1.1	11.9
1930	122.9	5.8	3.4	1.0	10.2
1931	123.9	4.9	3.2	.7	8.8
1932	124.7	4.3	3.4	.7	8.4
1933	125.4	4.2	3.9	.6	8.7
1934	126.2	4.3	4.2	.7	9.2
1935	127.1	5.1	4.7	.7	10.5
1936	127.9	5.2	*5.8	.7	11.7
1937	128.6	5.6	5.3	.9	11.8
1938	129.6	5.2	4.8	.8	10.8
1939	130.7	5.3	4.7	.7	10.7
1940	132.1	5.7	4.6	.7	11.0
1941	132.1	6.3	4.2	.7	11.2
1942	131.4	5.2	2.9	.6	8.7
1943	128.0	5.5	1.8	.6	7.9
1944	127.2	5.5	2.6	.6	8.7
1945	128.1	6.6	2.6	.7	9.9
1946	138.9	5.9	4.2	.7	10.8
1947	143.1	5.8	3.8	.7	10.3
1948	145.7	6.0	4.4	.7	11.1
1949	148.2	5.8	4.5	.6	10.9
1950	150.8	6.3	4.9	.6	11.8
1951	151.6	6.3	4.3	.6	11.2
1952	153.9	6.2	4.3	.7	11.2
1953	156.6	6.4	4.3	.7	11.4
1954	159.7	6.2	4.3	.7	11.2
1955	163.0	5.9	3.9	.7	10.5
1956	166.1	5.7	4.0	.7	10.4
1957	169.1	5.5	4.0	.7	10.2
1958	172.2	5.7	4.3	.6	10.6
1959	175.3	5.9	4.4	.6	10.9

See footnotes at end of table.

(Continued)

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-81 - Continued

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	- - - - - - - Pounds, edible meat - - - - - - -			
1960.	178.1	5.7	4.0	0.6	10.3
1961.	181.1	5.9	4.3	.5	10.7
1962.	183.7	5.8	4.3	.5	10.6
1963.	186.5	5.8	4.4	.5	10.7
1964.	189.1	5.9	4.1	.5	10.5
1965.	191.6	6.0	4.3	.5	10.8
1966.	193.4	6.1	4.3	.5	10.9
1967.	195.3	5.8	4.3	.5	10.6
1968.	197.1	6.2	4.3	.5	11.0
1969.	199.1	6.6	4.2	.4	11.2
1970.	201.9	6.9	4.5	.4	11.8
1971.	204.9	6.7	4.3	.5	11.5
1972.	207.5	7.1	4.9	.5	12.5
1973.	209.6	7.4	5.0	.4	12.8
1974.	211.6	6.9	4.7	.5	12.1
1975.	213.8	7.5	4.3	.4	12.2
1976	215.9	*8.2	4.2	.5	12.9
1977 (6).	218.1	7.7	4.6	.4	12.7
1978 (6).	220.5	8.1	5.0	.3	*13.4
1979 (6).	223.0	7.8	4.8	.4	13.0
1980 (6).	225.6	8.0	4.5	.3	12.8
1981 (6).	227.7	7.8	4.8	.4	13.0

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.
(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.
(3) Canned fish consumption for 1910 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.
(4) Cured fish consumption for 1910 to 1928 is estimated.
(5) Data for 1909 estimate based on the 1908 census and foreign trade data.
(6) Domestic landings data used in calculating these data are preliminary.

*Record.

Note:--These consumption figures refer only to consumption of fish and shellfish entering commercial channels, and they do not include data on consumption of recreationally caught fish and shellfish which since 1970 is estimated to be between 3 and 4 pounds (edible meat) per person annually. From 1970 through 1980, data were revised to reflect the results of the 1980 census.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1960-81

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
	Pounds					
1960. . . .	0.7	0.4	2.0	0.4	0.5	4.0
1961. . . .	.8	.5	2.1	.4	.5	4.3
1962. . . .	.9	.3	2.1	.4	.6	4.3
1963. . . .	.9	.4	2.0	.5	.6	4.4
1964. . . .	.7	.3	2.0	.5	.6	4.1
1965. . . .	.9	.3	2.3	.5	.3	4.3
1966. . . .	.8	.4	2.3	.4	.4	4.3
1967. . . .	.7	.4	2.4	.5	.3	4.3
1968. . . .	.7	.4	2.4	.5	.3	4.3
1969. . . .	.7	.4	2.4	.5	.2	4.2
1970. . . .	.7	.4	2.5	.5	.4	4.5
1971. . . .	.7	.4	2.4	.5	.3	4.3
1972. . . .	.7	.4	2.9	.5	.4	4.9
1973. . . .	.4	.5	3.1	.5	.5	5.0
1974. . . .	.3	.4	3.1	.5	.4	4.7
1975. . . .	.3	.2	2.9	.5	.4	4.3
1976. . . .	.3	.3	2.8	.4	.4	4.2
1977 (1). .	.5	.3	2.8	.6	.4	4.6
1978 (1). .	.6	.3	3.3	.5	.3	5.0
1979 (1). .	.5	.3	3.2	.5	.3	4.8
1980 (1). .	.5	.3	2.9	.5	.3	4.5
1981 (1). .	.5	.4	3.1	.5	.3	4.8

(1) Preliminary. Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1960-81

Year	Fillets and steaks (1)	Sticks and portions	Shrimp, all preparations
		Pounds (2)	
1960.	1.64	0.63	1.08
1961.	1.67	.71	1.01
1962.	1.77	.82	1.02
1963.	1.60	.92	1.17
1964.	1.62	.98	1.16
1965.	1.68	1.12	1.24
1966.	1.74	1.14	1.21
1967.	1.64	1.21	1.29
1968.	1.86	1.32	1.37
1969.	2.01	1.63	1.31
1970.	2.17	1.73	1.44
1971.	2.04	1.63	1.39
1972.	2.27	1.78	1.43
1973.	2.52	1.98	1.35
1974.	2.12	1.82	1.50
1975.	2.39	1.78	1.40
1976	2.52	2.04	1.48
1977 (3).	2.52	2.02	*1.56
1978 (3).	2.67	2.15	1.48
1979 (3).	2.66	*2.15	1.32
1980 (3).	2.61	1.92	1.43
1981 (3).	*2.73	1.73	1.45

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.

(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.

(3) Domestic landings data used in calculating these data are preliminary.

*Record.

Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census.

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975-77 AVERAGE

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	18.2	40.1
United States	15.9	35.1
Latin America:		
Argentina	4.1	9.0
Bolivia	1.8	4.0
Brazil	6.9	15.2
Chile	15.8	34.8
Colombia	3.4	7.5
Costa Rica	4.5	9.9
Cuba	20.9	46.1
Dominican Republic	6.3	13.9
Ecuador	10.4	22.9
El Salvador	2.2	4.8
Guatemala	.7	1.5
Guyana	20.9	46.1
Haiti	1.6	3.5
Honduras	1.1	2.4
Jamaica	24.0	52.9
Mexico	4.9	10.8
Nicaragua	4.3	9.5
Panama	9.7	21.4
Paraguay	1.0	2.2
Peru	17.2	37.9
Surinam	22.0	48.5
Trinidad and Tobago	10.1	22.3
Uruguay	5.0	11.0
Venezuela	10.2	22.5
Europe:		
Albania	1.8	4.0
Austria	7.8	17.2
Belgium and Luxembourg	18.5	40.8
Bulgaria	12.0	26.5
Czechoslovakia	7.9	17.4
Denmark	35.1	77.4
Fed. Republic of Germany	10.7	23.6
Finland	26.1	57.5
France	22.2	48.9
German Democratic Rep.	18.6	41.0
Greece	15.8	34.8
Hungary	5.0	11.0
Iceland	66.8	147.3
Ireland	14.2	31.3
Italy	12.4	27.3
Malta	13.2	29.1
Netherlands	13.2	29.1
Norway	47.0	103.6
Europe - Continued:		
Poland	20.5	45.2
Portugal	38.6	85.1
Romania	5.7	12.6
Spain	35.3	77.8
Sweden	32.5	71.6
Switzerland	10.4	22.9
United Kingdom	17.3	38.1
Yugoslavia	2.9	6.4
USSR	28.7	63.3
Near East:		
Afghanistan	.1	.2
Cyprus	6.5	14.3
Egypt	4.2	9.3
Iran	.5	1.1
Iraq	2.8	6.2
Israel	11.1	24.5
Jordan	2.1	4.6
Lebanon	3.3	7.3
Libya	7.3	16.1
Saudi Arabia	5.2	11.5
Sudan	1.4	3.1
Syria	1.4	3.1
Turkey	4.4	9.7
Yemen Arab Republic	3.8	8.4
Yemen (Aden)	12.4	27.3
Far East:		
Bangladesh	10.4	22.9
Burma	13.0	28.7
Cambodia	10.0	22.0
China	5.9	13.0
Hong Kong	50.5	111.3
India	3.2	7.0
Indonesia	10.7	23.6
Japan	67.4	148.6
Laos	6.2	13.7
Malaysia	34.7	76.5
Mongolia	.4	.9
Nepal	.2	.4
North Korea	35.6	78.5
Pakistan	1.6	3.5
Philippines	33.1	73.0
Republic of Korea	47.3	104.3
Singapore	42.5	93.7
Sri Lanka (Ceylon)	11.3	24.9
Thailand	22.9	50.5
Vietnam	21.8	48.1

See note at end of table.

(Continued)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975-77 AVERAGE - Continued

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa:		
Algeria	2.2	4.8
Angola	6.7	14.8
Benin	11.4	25.1
Botswana	1.9	4.2
Burundi	4.6	10.1
Cameroon	10.4	22.9
Central African Republic	5.8	12.8
Chad	14.7	32.4
Congo (Brazzaville)	24.9	54.9
Ethiopia	.6	1.3
Gabon	20.3	44.8
Gambia	13.6	30.0
Ghana	27.6	60.8
Guinea	4.7	10.4
Ivory Coast	20.7	45.6
Kenya	2.6	5.7
Liberia	20.8	45.9
Madagascar	6.4	14.1
Malawi	12.7	28.0
Mali	10.6	23.4
Mauritania	21.0	46.3
Mauritius	15.7	34.6
Morocco	4.4	9.7
Mozambique	1.8	4.0
Niger	.9	2.0
Nigeria	10.6	23.4
Republic of South Africa	7.0	15.4
Rhodesia	2.8	6.2
Rwanda	.3	.7
Senegal	40.5	89.3
Sierra Leone	26.8	59.1
Somalia	1.2	2.6
Tanzania	15.4	33.9
Togo	11.5	25.4
Tunisia	5.5	12.1
Uganda	14.8	32.6
Upper Volta	1.2	2.6
Zaire	6.2	13.7
Zambia	12.3	27.1
Oceania:		
Australia	14.6	32.2
New Zealand	16.9	37.3
Papua New Guinea	16.5	36.4
World	12.3	27.1

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

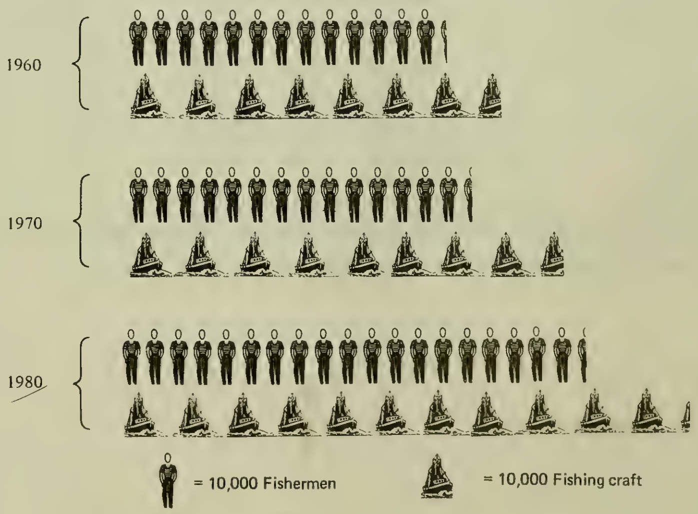
Source:--Food and Agriculture Organization of the United Nations (FAO), Rome.

FISHERY EMPLOYMENT, CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1955-80

Item	1955	1960	1965	1970	1976	1980(1)
	Number					
Persons employed:						
Fishermen	144,359	130,431	128,565	140,538	173,610	193,000
Processing and wholesaling (2)	97,825	93,625	86,864	86,813	93,609	103,448
Total	242,184	224,056	215,429	227,351	267,219	296,448
Craft used:						
Vessels (3)	11,796	12,018	12,311	13,591	16,875	18,900
Motor boats	58,218	56,889	63,828	71,570	84,445	92,800
Other boats	1,952	8,150	3,393	2,000	1,501	1,500
Total	71,966	77,057	79,532	87,161	102,821	113,200
Shore establishments:						
New England States	532	568	532	537	503	478
Mid-Atlantic States	1,230	1,133	1,109	832	768	716
South Atlantic States	449	454	443	432	522	668
Gulf Coast States	642	743	847	817	726	845
Pacific States	421	381	420	402	362	410
Alaska	179	134	137	108	182	200
Inland States (4)	671	772	673	564	511	249
Other (5)	-	22	24	43	43	11
Total	4,124	4,207	4,185	3,735	3,617	3,577

(1) Estimated for fishermen and craft.
(2) Average for season.
(3) Craft 5 net tons and over as documented by U.S. Coast Guard.
(4) A partial survey was made for some inland States in 1980.
(5) Data for 1955 are not available. Data for 1960 and 1965 include Hawaii only. Data for other years include American Samoa, Hawaii, and Puerto Rico. A partial survey was made for Hawaii in 1980.

NUMBER OF FISHERMEN AND FISHING CRAFT, 1960, 1970, AND 1980



PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1980

State and area	Processing			Wholesale			Total		
		Employment average			Employment average			Employment average	
	Plants	Season	Year	Plants	Season	Year	Plants	Season	Year
	Number								
New England:									
Maine	92	4,421	2,843	123	349	284	215	4,770	3,127
New Hampshire	13	549	464	3	15	13	16	564	477
Massachusetts	115	6,747	4,998	90	901	778	205	7,648	5,776
Rhode Island	18	462	332	16	85	70	34	547	402
Connecticut	4	26	21	4	26	24	8	52	45
Total	242	12,205	8,658	236	1,376	1,169	478	13,581	9,827
Mid-Atlantic:									
New York	44	680	617	172	1,886	1,664	216	2,566	2,281
New Jersey	35	1,461	1,140	67	315	305	102	1,776	1,445
Pennsylvania	16	1,384	1,251	19	235	234	35	1,619	1,485
Delaware	4	513	411	8	26	25	12	539	436
District of Columbia	-	-	-	7	94	93	7	94	93
Maryland	86	3,247	2,225	80	574	468	166	3,821	2,693
Virginia	128	6,149	4,403	50	463	419	178	6,612	4,822
Total	313	13,434	10,047	403	3,593	3,208	716	17,027	13,255
South Atlantic:									
North Carolina	109	2,714	1,745	225	909	608	334	3,623	2,353
South Carolina	20	703	439	119	690	350	139	1,393	789
Georgia	16	1,578	1,278	44	309	168	60	1,887	1,446
Florida East Coast	58	1,387	1,116	77	598	540	135	1,985	1,656
Total	203	6,382	4,578	465	2,506	1,666	668	8,888	6,244
Gulf:									
Florida West Coast	176	4,928	4,141	162	432	388	338	5,360	4,529
Alabama	51	1,738	1,179	17	166	89	68	1,904	1,268
Mississippi	43	1,889	1,357	16	119	85	59	2,008	1,442
Louisiana	117	4,228	2,853	121	580	478	238	4,808	3,331
Texas	51	1,800	1,364	91	1,090	780	142	2,890	2,144
Total	438	14,583	10,894	407	2,387	1,820	845	16,970	12,714
Pacific:									
Washington	110	2,816	1,924	70	971	662	180	3,787	2,586
Oregon	40	1,887	1,208	32	199	170	72	2,086	1,378
California	75	12,584	9,473	83	1,006	851	158	13,590	10,324
Total	225	17,287	12,605	185	2,176	1,683	410	19,463	14,288
Alaska (1)	200	16,000	8,000	(2)	(2)	(2)	200	16,000	8,000
Inland Areas: (3)									
Arkansas, Kansas, and Missouri	4	53	48	18	191	182	22	244	230
Idaho, Nevada, Oklahoma, North Dakota, South Dakota, and Colorado	3	24	14	8	39	33	11	63	47
Illinois	15	331	307	36	442	423	51	773	730
Indiana	-	-	-	10	98	89	10	98	89
Iowa and Nebraska	7	199	159	12	111	104	19	310	263
Michigan	17	202	151	29	285	262	46	487	413
Minnesota	8	277	134	9	34	28	17	311	162
Ohio	11	371	238	19	105	90	30	476	328
Wisconsin	24	231	201	19	172	161	43	403	362
Total	89	1,688	1,252	160	1,477	1,372	249	3,165	2,624
Hawaii, American Samoa, and Puerto Rico (4)	8	8,339	7,435	3	15	15	11	8,354	7,450
Grand total	1,718	89,918	63,469	1,859	13,530	10,933	3,577	103,448	74,402

(1) Data estimated. (2) Data on wholesale establishment are not available. (3) A partial survey was made in some inland States. (4) Data for all wholesale establishments in Hawaii are not available.

VESSELS CONSTRUCTED IN 1979 FOR THE UNITED STATES AND PUERTO RICO FISHING FLEETS

Gross tonnage	By tonnage groups									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number									
0 - 9	43	3	21	20	32	92	-	1	-	212
10 - 19	56	4	36	26	97	431	-	1	-	651
20 - 29	15	1	-	19	92	79	1	-	1	208
30 - 39	8	4	1	18	34	49	-	1	-	115
40 - 49	5	4	-	15	18	40	-	-	-	82
50 - 59	2	2	-	13	16	19	-	1	-	53
60 - 69	1	1	-	2	14	16	-	-	-	34
70 - 79	3	-	-	3	6	16	-	-	-	28
80 - 89	1	-	-	6	23	13	-	1	1	45
90 - 99	1	-	-	4	31	5	-	-	-	41
100 - 109	1	1	4	29	94	1	-	-	-	130
110 - 119	4	3	3	7	67	4	1	-	-	89
120 - 129	3	1	-	11	25	-	-	-	-	40
130 - 139	3	-	1	2	30	5	-	-	-	41
140 - 149	5	-	-	2	9	11	-	-	-	27
150 - 159	6	-	1	2	3	3	-	-	-	15
160 - 169	5	1	9	2	7	4	-	-	-	28
170 - 179	3	1	-	1	10	4	1	-	-	20
180 - 189	3	3	-	1	5	11	-	-	-	23
190 - 199	7	1	1	1	4	39	-	1	-	54
210 - 219	-	-	-	1	-	-	-	-	-	1
460 - 469	-	-	-	-	1	-	-	-	-	1
600 - 609	-	-	-	-	-	1	-	-	-	1
680 - 689	1	-	-	-	-	-	-	-	-	1
790 - 799	-	-	-	-	-	1	-	-	-	1
1160 - 1169	-	-	-	-	-	1	-	-	-	1
1170 - 1179	-	-	-	-	-	1	-	-	-	1
1410 - 1419	-	-	-	-	-	1	-	-	-	1
1430 - 1439	-	-	-	-	-	1	-	-	-	1
Total vessels	176	30	77	185	618	848	3	6	2	1,945

Length in feet	By length distribution									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number									
20 - 29	36	1	1	17	23	292	-	1	-	371
30 - 39	72	7	37	38	112	303	1	1	-	571
40 - 49	20	3	20	37	131	129	-	-	1	341
50 - 59	2	7	-	20	39	26	-	2	-	96
60 - 69	8	4	7	45	197	28	-	-	1	290
70 - 79	21	3	2	23	93	10	1	1	-	154
80 - 89	13	5	10	4	22	18	1	-	-	73
90 - 99	2	-	-	1	-	10	-	-	-	13
100 - 109	1	-	-	-	-	14	-	-	-	15
110 - 119	-	-	-	-	-	11	-	1	-	12
120 - 129	1	-	-	-	-	-	-	-	-	1
130 - 139	-	-	-	-	-	1	-	-	-	1
140 - 149	-	-	-	-	-	1	-	-	-	1
160 - 169	-	-	-	-	1	1	-	-	-	2
200 - 209	-	-	-	-	-	2	-	-	-	2
210 - 219	-	-	-	-	-	2	-	-	-	2
Total vessels	176	30	77	185	618	848	3	6	2	1,945

See note at end of table.

(Continued on next page)

VESSELS CONSTRUCTED IN 1979 FOR THE UNITED STATES
AND PUERTO RICO FISHING FLEETS - Continued

Horse power	By horsepower distribution									
	New England	Middle Atlantic	Chesa- peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number									
000 - 99	3	-	-	2	6	31	1	1	-	44
100 - 199	51	2	10	23	97	129	-	-	-	312
200 - 299	46	1	30	29	87	315	-	1	-	509
300 - 399	31	9	17	76	217	179	-	2	2	533
400 - 499	9	7	4	19	91	58	-	-	-	188
500 - 599	16	-	6	20	61	38	1	-	-	142
600 - 699	7	5	1	11	29	28	-	1	-	82
700 - 799	2	-	9	1	21	15	-	-	-	48
800 - 899	8	4	-	2	4	10	-	-	-	28
900 - 999	-	1	-	2	2	5	-	-	-	10
1000 - 1099	-	1	-	-	-	4	1	-	-	6
1100 - 1199	2	-	-	-	1	20	-	-	-	23
1200 - 1299	-	-	-	-	-	3	-	-	-	3
1300 - 1399	-	-	-	-	1	-	-	-	-	1
1400 - 1499	-	-	-	-	-	5	-	-	-	5
1500 - 1599	1	-	-	-	-	-	-	-	-	1
1700 - 1799	-	-	-	-	-	1	-	-	-	1
1800 - 1899	-	-	-	-	1	-	-	-	-	1
1900 - 1999	-	-	-	-	-	-	-	1	-	1
2000 2099	-	-	-	-	-	1	-	-	-	1
2200 - 2299	-	-	-	-	-	1	-	-	-	1
2400 - 2499	-	-	-	-	-	1	-	-	-	1
3600 - 3699	-	-	-	-	-	2	-	-	-	2
4600 - 4699	-	-	-	-	-	2	-	-	-	2
Total vessels	176	30	77	185	618	848	3	6	2	1,945

Note:--The above data represent the number of vessels documented by the U.S. Coast Guard as being constructed in 1979 for commercial fishing. It is possible that not all of the above vessels actually engaged in fishing. Data on commercial fishing vessels that were redocumented or that received first documentation are not readily available.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS, AND FISH FILLETS AND STEAKS, 1981

Area and State	Canned fishery products	Industrial fishery products	Fish fillets and steaks	Total plants, exclusive of duplication
	Number			
New England:				
Maine	16	6	22	43
Massachusetts	1	3	58	62
New Hampshire	-	-	1	1
Rhode Island	-	-	1	1
Total	17	9	82	107
Mid-Atlantic:				
New York	4	1	19	23
New Jersey	10	4	1	15
Pennsylvania	3	-	4	7
Delaware	2	-	-	2
Maryland	-	1	-	1
Virginia	3	7	6	15
Total	22	13	30	63
South Atlantic and Gulf:				
North Carolina	3	10	25	37
South Carolina	2	1	2	5
Georgia	-	3	-	3
Florida	2	6	39	45
Alabama	-	1	-	1
Mississippi	5	3	-	8
Louisiana	10	18	-	27
Total	22	42	66	126
Pacific:				
Washington	25	10	29	57
Oregon	6	1	14	21
California	13	9	25	43
Total	44	20	68	121
Alaska	73	3	-	76
Inland States:				
Illinois	-	-	11	11
Iowa	-	1	3	4
Kansas	1	-	-	1
Michigan	2	-	9	11
Minnesota	-	1	4	4
Ohio	-	1	5	6
Nebraska	1	-	-	1
Wisconsin	2	3	15	20
Total	6	6	47	58
Hawaii	1	1	-	1
American Samoa	2	2	-	2
Puerto Rico	5	4	-	5
Grand total	192	100	293	559

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR 1981

Region	Edible fishery products							
	Establishments (1)			Amount inspected				
	SIFE (2)	PUFI (3)	MP (4)	Grade A (5)	PUFI (5)	No mark (6)	Lot (7)	Total
	- - - Number - - -			- - - - - - - Thousand pounds - - - - - - -				
Northeast.	4	34	5	92,870	163,260	29,026	37,734	322,890
Southeast.	1	22	9	7,916	74,804	7,752	28,344	118,816
West	4	10	10	8,826	128,392	6,625	39,211	183,054
Total, 1981. . . .	9	66	24	109,612	366,456	43,403	105,289	624,760
Total, 1980. . . .	11	57	23	114,205	422,080	39,033	108,177	683,495

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices.
(2) Fish processing establishments approved for sanitation under the Sanitarily Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.
(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection.
(4) Plants under USDC inspection for military purchase (MP) products only.
(5) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) or "U.S. Grade A."
(6) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.
(7) Lot inspected products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Source:--NMFS, Seafood Research, Inspection, and Consumer Services Division.

FISHERY COOPERATIVES IN THE UNITED STATES, GUAM, PUERTO RICO, AND VIRGIN ISLANDS, 1981

Region and State or area	Total	Members	Fishing craft	Functions performed by cooperatives		
				Marketing and purchasing	Marketing exclusively	Other
	Number					
New England and Middle Atlantic:						
Maine.	17	747	658	14	-	3
Massachusetts.	6	936	282	5	-	1
Rhode Island	2	221	138	1	1	-
Connecticut.	1	125	40	-	-	1
New Jersey	3	70	51	3	-	-
Total	29	2,099	1,169	23	1	5
South Atlantic and Gulf:						
Florida.	3	122	120	-	2	1
Georgia.	1	22	33	1	-	-
Mississippi.	2	45	1	-	-	2
South Carolina	2	41	23	1	1	-
Texas.	2	87	154	2	-	-
Total	10	317	331	4	3	3
Great Lakes and inland:						
Michigan	1	125	90	1	-	-
Minnesota.	1	200	100	1	-	-
Total	2	325	190	2	-	-
Pacific Coast:						
Alaska	22	2,650	2,180	5	4	13
California	20	3,102	2,415	1	8	11
Oregon	5	1,200	1,010	2	2	1
Washington	13	2,652	2,581	1	4	8
Total	60	9,604	8,186	9	18	33
Guam	1	(1)	(1)	-	1	-
Puerto Rico.	15	389	193	15	-	-
Virgin Islands	2	80	60	2	-	-
Grand total	119	12,814	10,129	55	23	41

(1) Not available.

Note:--These cooperatives meet at least one of the following two requirements: 1. Each member of the Association has one vote irrespective of the amount of stock or membership capital he may own therein; or 2. The Association's dividends on stock or membership capital does not exceed 8 percent per year and the Association shall not deal in the products of nonmembers in an amount greater in value than is handled for members.

Source:--NMFS, Fisheries Development Division (F/UD11)

THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson Fishery Conservation and Management Act (MFCMA), Public Law 94-265 as amended, provides for the conservation and exclusive management of all fishery resources within the U.S. fishery conservation zone (FCZ) except highly migratory species of tuna. It also provides for exclusive management authority over continental shelf fishery resources and anadromous species beyond the U.S. FCZ, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such sea or zone is recognized by the United States.

The U.S. FCZ extends from the seaward boundaries of the territorial sea (3 nautical miles from shore for all but 2 States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf Coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the MFCMA, the U.S. Department of State, with cooperation from the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce, negotiates a Governing International Fishery Agreement (GIFA) with any foreign country wishing to fish within the U.S. FCZ. After the GIFA is signed, it is transmitted by the President to the Congress for review.

FOREIGN FISHING PERMIT

After a GIFA is in force, the foreign nation submits a vessel permit application for each vessel to the U.S. Department of State. The U.S. Department of State provides copies of the application to the Congress, the U.S. Coast Guard, the appropriate Regional Fishery Management Council, and to the Assistant Administrator for Fisheries of the National Marine Fisheries Service (NMFS) with recommendations. The NMFS also receives recommendations from the Regional Fishery Management Councils and the U.S. Coast Guard, as well as the general public.

The Assistant Administrator for Fisheries reviews all recommendations pertinent to the application and, after consultation with the U.S. Department of State and the U.S. Coast Guard, may approve the application. The conditions and restrictions on the approval of the application are sent to the foreign nation through the U.S. Department of State, and must be accepted by the nation before a permit is issued.

FEES

Foreign nations (except Canada) engaged in fisheries subject to U.S. jurisdiction are charged permit fees, a poundage fee, a foreign fee surcharge, and an observer fee.

The permit fees in 1981 were modified to recover administrative costs of issuing permits and providing logbooks. A uniform permit fee of $50 per vessel was charged for catching, processing or other support vessel permits. Permit fees are paid when permit applications are submitted.

The poundage fees in 1981 were computed by assessing 3.5, 7, or 10 percent of the dockside (exvessel) price of fish that were actually caught by each nation. Seven percent was the basic percentage applied; 3.5 percent was used when 7 percent would make a fishery uneconomic, and 10 percent was used for species particularly important to U.S. fishermen.

In 1981, the United States imposed a surcharge of 20 percent on each nation's permit fee and poundage fee, but not on the observer fee. The surcharge is used to capitalize a fund to compensate U.S. fishermen operating in the U.S. FCZ whose vessels or gear are lost or damaged because of conflicts with foreign vessels.

The observer fee covers U.S. costs including salary, per diem, transportation, and overhead for U.S. observers on board foreign vessels. The fee is computed on the basis of actual observer trips.

FOREIGN ALLOCATIONS

The total allowable level of foreign fishing (TALFF), if any, for any fishery subject to the exclusive fishery management authority of the United States is that portion of the optimum yield (OY) of such fishery that will not be harvested by vessels of the United States.

Each assessment of OY and each assessment of the anticipated U.S. harvest is reviewed during each fishing season. Adjustments to TALFF's are based on updated information relating to status of stocks, estimated and actual performance of domestic and foreign fleets, and other relevant factors.

FMP's and PMP's

Under the Magnuson Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMP's) for the fisheries needing management under their jurisdiction. After the Councils develop FMP's, which cover domestic and foreign fishing efforts, the FMP's are submitted to the Secretary of Commerce for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary of Commerce is also empowered to prepare plans. Where no FMP exists, Preliminary Fishery Management Plans (PMP's), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's plan covers domestic and foreign fishing.

As of January 1, 1982, seven Preliminary Fishery Management Plans (PMP's) were in effect, many of which have been amended since first being implemented.

Atlantic Billfishes and Sharks
Foreign Trawl Fisheries of the
  Northwest Atlantic
Hake Fisheries of the Northwestern
  Atlantic
Trawl Fisheries off the Coasts
  of Washington, Oregon, and Califonia
Bering Sea Snails
Pacific Billfishes and Oceanic
  Sharks
Seamount Groundfish ot the Pacific

Under Section 304 of the Magnuson Act, all Council-prepared FMP's must be reviewed by the Secretary of Commerce. As of January 1, 1982, six plans were undergoing Secretarial Review.

Billfish of the Western Pacific Region
Coastal Migratory Pelagic Resources (South Atlantic
  and Gulf of Mexico)
Groundfish off the Coasts of Washington, Oregon, and
  California
Reef Fish (Gulf of Mexico)
Spiny Lobster (Caribbean)
Spiny Lobster (Gulf of Mexico and South Atlantic)

After plans are approved under Section 304 of the Magnuson Act, they are implemented with Federal regulations under Section 305 of the Act. As of January 1, 1982, one plan was awaiting implementation.

Precious Corals of the Western Pacific Region

As of January 1, 1982, 14 FMP's were fully implemented, many of which have been amended since initial implementation.

Atlantic Butterfish
Atlantic Groundfish
Atlantic Herring
Atlantic Mackerel
Atlantic Squid
Surf Clam and Ocean Quahogs
Gulf of Mexico Shrimp
Gulf of Mexico Stone Crabs
Northern Anchovy (Pacific Ocean)
Salmon Fisheries off the Coasts
  of Washington, Oregon, and California
High Seas Salmon off Alaska
Tanner Crab off Alaska
Groundfish of the Bering Sea
  and Aleutian Islands
Gulf of Alaska Groundfish

REGIONAL FISHERY MANAGEMENT COUNCILS

Council	States	Telephone number	Executive Director
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	617-231-0422	Douglas G. Marshall, Suntaug Office Park 5 Broadway (Rte. 1), Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, and Virginia)	302-674-2331	John C. Bryson, Federal Bldg., Suite 2115 North and New Sts., Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia, and Florida)	803-571-4366	David H. G. Gould, Southpark Bldg., Suite 306 1 Southpark Circle, Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana, Mississippi, Alabama, and Florida)	813-228-2815	Wayne E. Swingle, Lincoln Center, Suite 881 5401 W. Kennedy Blvd., Tampa, FL 33607
CARIBBEAN	(Puerto Rico and Virgin Islands)	809-753-4926	Omar Munoz-Roure, Banco de Ponce Bldg. P.O. Box 1001 Hato Rey, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-221-6352	Joseph C. Greenly, 526 SW. Mill St. Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-4064	Jim H. Branson, 333 W. Fourth Ave., Suite 32 P.O. Box 3136DT, Anchorage, AK 99510
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and other Pacific areas).	808-523-1368	Svein Fougner 1164 Bishop St., Room 1608 Honolulu, HI 96813

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN ALLOCATIONS: BY COUNTRY AND REGION, 1981

Item	North Atlantic	Washington, Oregon, and California	Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Pacific Seamount	Total
	Metric tons, round weight					
Optimum yield (OY).	453,150	352,200	420,991	1,582,226	2,000	2,810,567
DAH (1).	295,200	252,855	43,367	102,617	0	694,039
Reserve.	9,332	0	3,360	0	0	12,692
TALFF (2).	148,618	99,345	374,264	1,479,609	2,000	2,103,836
Country allocations						
Bulgaria	12,295	10,457	0	0	0	22,752
Cuba	6,641	0	0	0	0	6,641
EEC:						
Federal Republic of Germany. . . .	0	0	1,200	22,981	0	24,181
Italy.	22,897	0	0	0	0	22,897
Faroe Islands. . . .	600	0	0	0	0	600
Japan.	24,303	0	217,439	1,181,443	1,000	1,424,185
Poland	8,475	83,658	64,252	73,945	0	230,330
Portugal	10,928	0	0	0	0	10,928
Republic of Korea. .	0	0	88,387	180,149	0	268,536
Spain.	28,316	0	0	0	0	28,316
Taiwan	0	0	0	20,866	1,000	21,866
Unallocated.	34,163	5,230	2,986	225	0	42,604

(1) Domestic annual harvest.

(2) Total allowable level of foreign fishing.

Note:--TALFF = OY minus domestic annual harvest minus reserve. (See Glossary.) Table only includes species for which there was a foreign fishery. Species prohibited to foreign fishing are not included.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: NORTH ATLANTIC AND GULF OF MEXICO, BY SPECIES AND COUNTRY, 1981

Item	Directed fisheries					Incidental catch				Total
	Red hake	Silver hake	Sharks, except dogfish	Long-finned squid(1)	Short-finned squid(1)	Atlantic mackerel (1)	Butterfish (1)(2)	River herring (3)	Other finfish	
	Metric tons, round weight									
Optimum yield (OY) . .	22,000	55,000	6,150	44,000	30,000	30,000	11,000	8,000	247,000	453,150
DAH (4)	13,500	29,600	5,000	7,000	5,000	20,000	7,000	7,900	200,200	295,200
Reserve	3,000	6,000	0	332	0	0	0	0	0	9,332
TALFF (5) . . .	5,500	19,400	1,150	36,668	25,000	10,000	(6) 4,000	100	46,800	148,618
Country allocations										
Bulgaria. . . .	487	2,000	0	2,000	1,000	3,000	25	5	3,778	12,295
Cuba.	487	2,000	0	125	234	7	5	5	3,778	6,641
EEC, Italy. . .	487	2,742	0	6,950	6,170	2,610	150	10	3,778	22,897
Faroe Islands .	0	0	500	0	0	0	0	0	100	600
Japan	900	1,242	0	11,869	5,600	594	310	10	3,778	24,303
Poland.	487	2,834	0	531	500	305	22	18	3,778	8,475
Portugal. . . .	487	2,205	0	1,978	2,000	392	83	5	3,778	10,928
Spain	487	1,400	0	12,336	8,920	780	605	10	3,778	28,316
Unallocated . .	1,678	4,977	650	879	576	2,312	2,800	37	20,254	34,163

(1) For fishing year beginning on April 1, 1981, and ending on March 31, 1982.
(2) Allocated by country in proportion to long-finned squid fishery.
(3) Includes alewife, blueback herring, and hickory shad.
(4) Domestic annual harvest.
(5) Total allowable level of foreign fishing.
(6) The Mid-Atlantic Fisheries Management Council certified an annual fishing level (AFL) of 759 metric tons (mt) for butterfish for the fishing year. An additional 659 mt was made available in February 1982, for a total of 1,418 mt available for allocation to foreign nations.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: WASHINGTON, OREGON, AND CALIFORNIA, BY SPECIES AND COUNTRY, 1981

Item	Directed fisheries	Incidental catch						Total
				Rockfishes				
	Pacific hake (whiting)	Jack mackerel	Flounders	Pacific ocean perch	Other	Sablefish	Other species	
	Metric tons, round weight							
Optimum yield (OY)	175,000	55,000	38,400	1,000	43,300	13,400	26,100	352,200
DAH (1)	80,000	52,150	38,305	941	42,599	13,235	25,625	252,855
Reserve	0	0	0	0	0	0	0	0
TALFF (2)	95,000	(3)2,850	(4) 95	(5)59	(6)701	(7)165	(8)475	99,345
Country allocations								
Poland	80,000	2,400	80	50	590	138	400	83,658
Bulgaria	10,000	300	10	6	74	17	50	10,457
Unallocated	5,000	150	5	3	37	10	25	5,230

(1) Domestic annual harvest.
(2) Total allowable level of foreign fishing.
(3) 3.0% of the hake TALFF.
(4) 0.1% of the hake TALFF.
(5) 0.062% of the hake TALFF.
(6) 0.738% of the hake TALFF. Includes short belly rockfish.
(7) 0.173% of the hake TALFF.
(8) 0.5% of the hake TALFF.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: GULF OF ALASKA, BY SPECIES AND COUNTRY, 1981 FISHING YEAR (NOVEMBER 1, 1980, TO DECEMBER 31, 1981)

Item	Directed fisheries									Incidental catch	Total
					Rockfishes						
	Alaska pollock	Atka mackerel	Flounders	Pacific cod	Idiot	Pacific ocean perch	Other	Sablefish	Squid	Other species (1)	
	Metric tons, round weight										
Optimum yield (OY). .	196,933	33,484	39,083	70,000	4,375	29,167	8,867	14,349	5,833	18,900	420,991
DAH (2) . . .	26,293	115	1,910	6,366	7	2,001	500	4,343	25	1,807	43,367
Reserve. . . .	0	0	0	0	0	3,360	0	0	0	0	3,360
TALFF (3). . .	170,640	33,369	37,173	63,634	4,368	23,806	8,367	10,006	5,808	17,093	374,264
Country allocations											
EEC, Federal Republic of Germany. .	840	45	30	90	15	30	30	15	45	60	1,200
Japan.	82,385	11,351	27,297	51,873	3,298	15,169	4,133	7,934	4,039	9,960	217,439
Poland	46,677	5,483	3,236	2,712	253	1,858	1,061	426	508	2,038	64,252
Republic of Korea. . . .	40,738	16,490	6,610	8,959	802	3,763	3,143	1,631	1,216	5,035	88,387
Unallocated. .	0	0	0	0	0	2,986	0	0	0	0	2,986

(1) Includes rattail, sculpins, sharks, skates, euchalon, smelts, capelin, and octopus.
(2) Domestic annual harvest.
(3) Total allowable level of foreign fishing.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS:
EASTERN BERING SEA AND ALEUTIAN ISLANDS, BY SPECIES AND COUNTRY, 1981

Item	Directed fisheries					
			Flounders			
	Alaska pollock	Atka mackerel	Turbot	Yellowfin sole	Other	Pacific cod
	Metric tons, round weight					
Optimum yield (OY). . .	1,100,000	24,800	90,000	117,000	61,000	78,700
DAH (1).	44,550	1,340	275	17,200	7,250	27,232
Reserve.	0	0	0	0	0	0
TALFF (2). . . .	1,055,450	23,460	89,725	99,800	53,750	51,468
Country allocations						
EEC, Federal Rep. of Germany. . .	13,040	840	1,308	1,158	1,104	2,886
Japan.	859,502	10,283	72,124	73,538	44,641	38,015
Poland	54,624	1,000	4,046	4,109	2,117	1,958
Rep. of Korea. .	115,881	10,875	10,357	19,549	4,440	6,705
Taiwan	12,403	237	1,890	1,446	1,448	1,904
Unallocated. . .	0	225	0	0	0	0

Item	Directed fisheries					Incidental catch	Total
	Rockfishes						
	Pacific ocean perch	Other	Sablefish	Snails (meats)	Squid	Other species	
	Metric tons, round weight						
Optimum yield (OY). . .	10,750	7,727	5,000	3,000	10,000	74,249	1,582,226
DAH (1).	300	150	200	0	20	4,100	102,617
Reserve.	0	0	0	0	0	0	0
TALFF (2). . . .	10,450	7,577	4,800	3,000	9,980	70,149	1,479,609
Country allocations							
EEC, Federal Rep. of Germany. . .	206	167	112	0	201	1,959	22,981
Japan.	8,222	5,769	3,487	3,000	7,193	55,669	1,181,443
Poland	897	445	294	0	691	3,764	73,945
Rep. of Korea. .	939	1,076	773	0	1,712	7,842	180,149
Taiwan	186	120	134	0	183	915	20,866
Unallocated. . .	0	0	0	0	0	0	225

(1) Domestic annual harvest. (2) Total allowable level of foreign fishing.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FORIGN FISHING ALLOCATIONS: PACIFIC SEAMOUNT GROUNDFISH FISHERY, BY COUNTRY, 1981

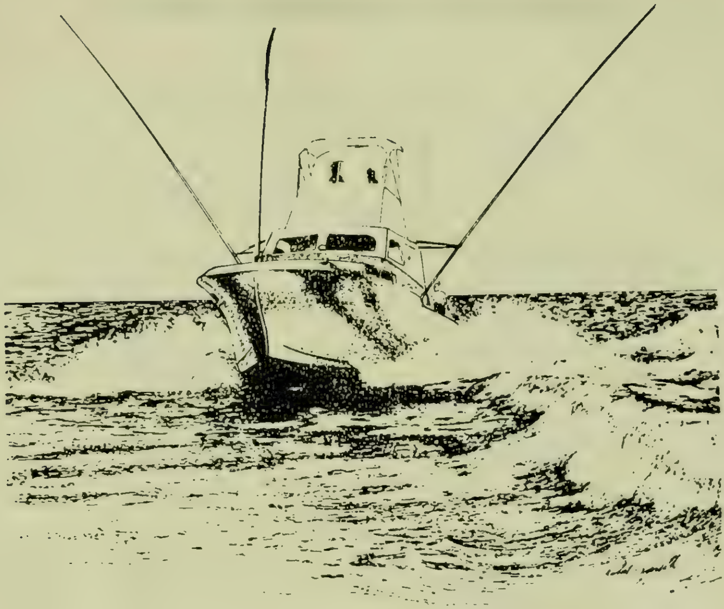
Item	Directed fisheries
	Pelagic armorheads, alfonsins, and other groundfish
	- - - - - - Metric tons, round weight - - - - - -
Optimum yield (OY)	2,000
DAH (1)	0
Reserve	0
TALFF (2)	2,000
Country allocations	
Japan	1,000
Taiwan	1,000

(1) Domestic annual harvest.

(2) Total allowable level of foreign fishing.

Note:--The TALFF for armorheads, alfonsins, and other groundfish resources was subject to additional restrictions on total effort by foreign fishing vessels. No more than 50 vessel days of trawling and 50 vessel days of bottom longlining were allowed in this fishery.

Source:--Country allocations are from the U.S. Department of State, Office of Fisheries Affairs; all other data are from the National Marine Fisheries Service, Office of Resource Conservation and Management.



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WASHINGTON, DC 20235

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F/NER543	Liaison Office Robert L. Lippson NMFS, Oxford Laboratory Railroad Avenue Oxford, MD 21654	301-226-5771	Oxford, MD
F/SER	Southeast Region Director, Jack T. Brawner Duval Bldg., 9450 Koger Blvd. St. Petersburg, FL 33702	813-892-3142	St. Petersburg, FL
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F/NWR	Northwest Region Director, H.A. Larkins 7600 Sand Point Way, N.E., Bin C15700 Seattle, WA 98115	206-527-6150	Seattle, WA
F/NWR5	Environmental and Technical Services Division, Chief, Dale R. Evans 847 N.E. 19th Ave., 3rd floor Portland, OR 97232	503-230-5400 Ext. 4301	Portland, OR
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F/NWC11	Kodiak Facility Director, Robert Wolotira P.O. Box 1638 Kodiak, AK 99615	907-487-4961	Kodiak, AK
F/SEC	Southeast Fisheries Center Director, William W. Fox, Jr. 75 Virginia Beach Dr. Miami, FL 33149	305-361-5761	Miami, FL
F/SEC1	Miami Laboratory Director, William J. Richards Address same as above	Same as above	
F/SEC2	Mississippi Laboratories Director, Andrew J. Kemmerer National Space Technology Labs NSTL Station, MS 39529	601-688-3650	Bay St. Louis, MS
F/SEC22	Pascagoula Facility Chief, Wilber R. Seidel 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567	602-762-4592	Pascagoula, MS

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F/SEC8	Charleston Laboratory Director, Harry L. Seagran P.O. Box 12607 Charleston, SC 29412	803-724-4770	Charleston, SC
F/SEC9	Beaufort Laboratory Director, Theodore Rice P.O. Box 570 Beaufort, NC 28516	919-728-4595	Beaufort, NC
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(Continued)

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New Bedford	617-999-2425	Dennis E. Main, U.S. Custom House, 2nd and Williams Sts., New Bedford, MA 02740
New Bedford	617-994-9200	Paul O. Swain, Address same as above
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Miami	305-361-4461	J. Ernest Snell, Address same as above
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Galliano	504-475-7072	Morrison P. Duet, P.O. Box 162, Galliano, LA 70354
Houma	504-872-3321	Leryes J. Usie, Post Office Bldg., 423 Lafayette St., Houma, LA 70360
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Aransas Pass	512-758-3787	Mary Magec, Address same as above
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New Bedford, MA 617-997-6565
Landings and exvessel prices at New Bedford.

Hampton, VA 804-723-0303
Landings and exvessel prices for New Bedford and Boston and landings at Fulton Market in New York announced from 10:30 a.m. to 3:00 p.m., Monday through Friday. Wholesale prices on New York Fulton Market announced 3:30 p.m. until 10:00 a.m. the following day, Monday through Thursday. Friday only, weekly summary of landings in the Hampton Roads area.

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Landings and exvessel prices at New York City, Boston, Gloucester, and New Bedford announced 10:15 a.m. to 3:00 p.m. Wholesale prices on New York Fulton Market announced 3:15 p.m. to 10:00 a.m. the following day.

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	BOSTON BLUE SHEET	NEW YORK GREEN SHEET	NEW ORLEANS GOLDENROD SHEET	TERMINAL ISLAND BUFF SHEET	SEATTLE PINK SHEET
Landings	New England Major Ports	New England Major Ports New York City Gulf Area Finfish and Shrimp	Gulf Finfish, Shrimp, and Shellfish, by Area Florida Spiny Lobster	Tuna and California Anchovy, Bonito, Mackerel, and Squid San Pedro Market Fish Otter Trawl Landings (Weekly)	Alaska Halibut, Salmon Alaska Groundfish Alaska Shellfish Oregon, all Fisheries Washington, all Fisheries
Market Receipts (Truck, Air, Rail, and Vessel)	Boston Shippers' Market and Live Lobsters	New York Fulton Market	New Orleans New York Fulton Market, (Crabmeat and Shrimp) Shellfish	San Pedro Market Fish	– –
Cannery Receipts	– –	– –	Shrimp	Tuna and Bonito, California Mackerel, and Squid	– –
Imports	New England Frozen Blocks by Species and Country Selected Products by Country	New York City Customs District Shrimp by Country (Monthly) Shrimp by Size (Weekly on Wed.)	Gulf Area Savannah, GA Charleston, S.C. W. Palm Beach, Miami, FL Shrimp by Country Shrimp by Size Selected Products by Country	Tuna and Bonito by Species, Type, and Country Arizonia and California Mexican Shrimp Shrimp by Size Selected Products by Country	Washington, Oregon and Idaho
Exports	Selected Products Monthly, by Country	––	Selected Products Monthly, by Country	Prices Selected Species Selected Products Monthly, by Country	Pacific Northwest and Alaska by Country
Cold Storage Holdings	New England (Weekly) National (Monthly)	– – National (Monthly)	– – National (Monthly)	– – National (Monthly)	Northwest (Monthly) National (Monthly)
Canned Pack	– –	– –	– –	Tuna and Bonito	Alaska Canned Salmon Pack in Season
Exvessel Prices	Boston and New Bedford Auction Sales Live Lobsters (Mass.)	Boston and New Bedford Auction Sales	– –	Tuna and Bonito California Port	Alaska Halibut, Salmon Alaska Groundfish Alaska Shellfish Oregon, all Fisheries Washington, all Fisheries
Wholesale Prices (Fresh and Frozen)	Boston Shellfish (Wed.) Live Lobsters (Bought by Wholesaler)	New York Saltwater Finfish-Shellfish and Freshwater Finfish	New Orleans and New York Shellfish Japanese Shrimp Market Information	New York Shellfish	New York Halibut and Salmon Boston, Gloucester, and New Bedford Frozen Fish
Processors, Importers, and Brokers' Prices	Frozen Blocks, Fillets, Shellfish Specialty Items (Boston, New Bedford, and Gloucester) (Weekly on Wed.)	Frozen Shrimp, Lobster Tails, Other Shellfish, and Fillets Specialty Items, etc. (Weekly on Fri.)	New York Frozen Shrimp, and Lobster Tails Fish Meal Oil and Solubles, (Weekly on Wed.)	Canned Tuna and Bonito New England Frozen Blocks Fish Meal, Oil, and Solubles	Canned Salmon, Crab, and Shrimp Frozen Shrimp and Crab Washington Oysters Fish Meal, Oil, and Solubles

OTHER INFORMATION, ALL OFFICES: News Releases, NMFS and Council Notices, Import/Broker Lists, Export Opportunity, Selected Export Data, Situation and Outlook Reports, Selected Air and Rail Shipments, Foreign Fishing off U.S. Coasts, and International News (IFR).

WEEKLY SUMMARY EVERY FRIDAY

In addition to the usual daily and other data, the Weekly Summary part of the Friday reports contain these special weekly features:

Landings	New England Ports	Chesapeake and North Carolina Areas	Shrimp, Gulf Finfish, and Shellfish by Area; North Carolina Fish and Shellfish by District; Florida Spiny Lobster; Alaska Preliminary Westward Regional Shrimp Catch	California Tuna, Bonito, Mackerel, and Anchovy Fisheries Otter Trawl Landings	Alaska Groundfish Alaska Shellfish Otter Trawl-Seattle
Market Receipts	–– Boston Lobster	New York Fulton Market Selected Species	––	––	––
Canned Pack	– –	– –	Gulf Oyster and Shrimp	– –	––
Imports	– –	– –	– –	Shrimp from Mexico	Oregon and Washington
Exvessel Prices	Boston and New Bedford	– –	Weighted Average for Shrimp by Area and Size	– –	Alaska and Oregon
Wholesale Prices	Live Lobster Market	New York Fulton Market Selected Species	New Orleans Fresh Fish and Shrimp	– –	– –

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

SCIENTIFIC PUBLICATIONS ONLY

Information on scientific publications by NMFS may be obtained from the Scientific Publications Office (F/NWR1), 7600 Sand Point Way N.E., Bin C-15700, Seattle, WA 98115. Telephone: 206-527-6107.

OTHER PUBLICATIONS (1)

A partial list of National Marine Fisheries Service (NMFS) publications is shown on this page. Information on other publications produced by NMFS may be obtained from:

National Oceanic and Atmospheric Administration
Information Management Division
Publications Services Branch (OA/D812)
Rockville, MD 20852

CURRENT FISHERY STATISTICS (CFS) SERIES

The reports listed below are in the CFS (Current Fishery Statistics) series. They are statistical bulletins on marine recreational fishing and commercial fishing, and on the manufacture and commerce of fishery products. To obtain a subscription to these publications, check the designated space () and return to:

NOAA, National Marine Fisheries Service
Resource Statistics Division (F/SR1)
Washington, D.C. 20235
202-634-7366

Marine recreational fishing publications are released irregularly. If you wish a copy of the following publications, check the designated space () and return to the office shown above.

( ) Participation in Marine Recreational Fishing, Northeastern United States, 1973-74 C.F.S. No. 6236

( ) Participation in Marine Recreational Fishing, Southeastern United States, 1974 C.F.S. No. 7333

( ) Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979, C.F.S. No. 8063

The following are preliminary bulletins on commercial landings. They are issued monthly and annually.

( ) GC-6 Shrimp Landings
( ) GCS Gulf Coast Shrimp Data

The bulletins listed below published through 1976, show annual data on U.S. commercial landings, fishermen and operating unit data, and the production of processed products, by States. Statistics published in these sectional summary bulletins are published later in Fishery Statistics of the United States (Statistical Digest) together with text and more detailed information on landings and operating units.

New England Fisheries
Middle Atlantic Fisheries
Chesapeake Fisheries
( ) SR South Atlantic Fisheries
Gulf Fisheries
Hawaii Fisheries
Great Lakes Fisheries
Mississippi River Fisheries

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. The annual data shown in the publications are later published in Fishery Statistics of the United States. To order Fishery Statistics of the United States from the Government Printing Office (GPO) or the National Technical Information Service (NTIS), see the two pages that follow.

The following are available through 1981 as monthly and annual bulletins:

( ) Frozen Fishery Products
( ) Fish Meal and Oil

The following, are available annually through 1980:

( ) MF-1 Canned Fishery Products
( ) MF-2 Industrial Fishery Products
( ) MF-3 Production of Fish Fillets and Steaks
( ) MF-4 Processed Fishery Products
( ) MF-5 Fish Sticks, Fish Portions, and Breaded Shrimp (Quarterly and Annually)
( ) MF-6 Imports and Exports of Fishery Products

LIBRARY INFORMATION

Library information is available from NOAA's Georgetown Center (OA/D8222), Page Building 2, Room 193, 3300 Whitehaven St.,NW., Washington, D.C. 20235. Telephone: 202-634-7346.

(1) Paper copies when available, may be purchased from the NOAA Information Management Division listed above. There is a $5.00 user charge for shelf stock publications. Make check or money order payable to: Department of Commerce, NOAA, ESIC.

PUBLICATIONS

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

Shellfish Market Review

Food Fish Market Review

Fish Meal and Oil Market Review

Each of these reports is published on an irregular basis. The reports provide description and analysis of those economic factors affecting markets for fishery products. The narrative includes a review of market trends, both historical and recent, and an outlook for the near future. Statistical tables are presented for landings, production, imports, inventories, supplies, apparent consumption, and prices (exvessel, wholesale, and retail).

Operation Price Watch

This report is based on an informal NMFS survey of retail prices of fish and other items. The report is published monthly. It includes prices of surveyed items in each of 10 cities and three price indexes (fish, meat, and poultry). Because prices of some items, notably fresh fish, are not regularly available, they are not included in the 10-city averages, nor in the indexes. The three indexes differ from those published by the Bureau of Labor Statistics (BLS), which conducts separate formal surveys of retail prices for the Consumer Price Index (CPI).

The reports listed below are studies of the market for underutilized fish in the United States and 16 foreign countries.

Study Report of Export and Domestic Market Opportunities for Underutilized Fish and Shellfish.

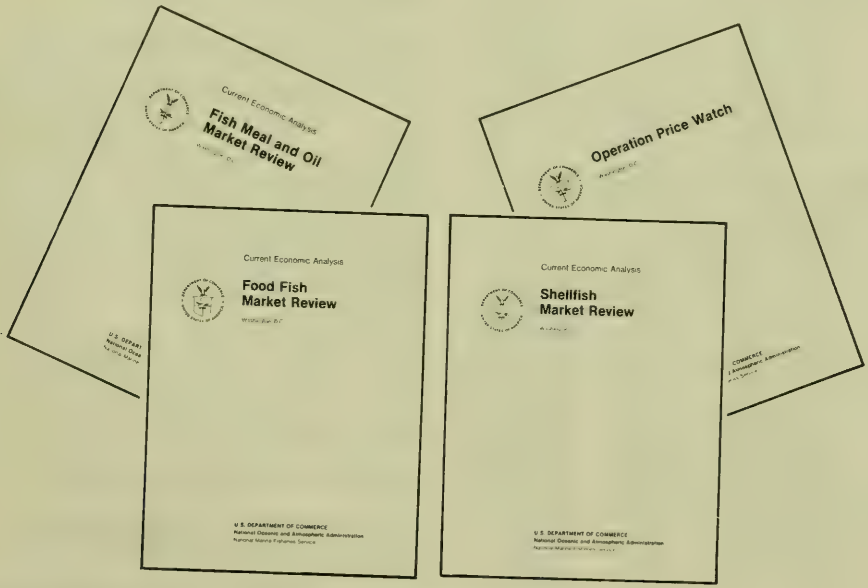
Export Market Summaries for France, Belgium/Luxembourg Switzerland, W. Germany.

Export Market Summaries for Italy, Spain, Portugal, Greece.

Export Market Summaries for Denmark, Sweden, United Kingdom, Netherlands.

Export Market Summaries for Japan, Korea, Taiwan, Nigeria.

Prospectus for Development of the United States Fisheries.


Current Economic Analysis
Fish Meal and Oil Market Review
Operation Price Watch
Current Economic Analysis
Food Fish Market Review
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Current Economic Analysis
Shellfish Market Review
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

FURTHER INFORMATION MAY BE OBTAINED FROM:

Fisheries Development Division (F/UD1)
National Marine Fisheries Service
Washington, DC 20235
202-634-7451

PUBLICATIONS AVAILABLE FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPARTMENT OF COMMERCE

Report of the National Marine Fisheries Service for the Calendar Year 1978. (No accession number assigned.)

RECREATIONAL MARINE FISHING

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Recreational Fishing:
Northeastern United States, 1973-74, COM-75-10655.
Southeastern United States, 1974, PB-273160

Marine Recreational Fishery Statistics Survey Atlantic & Gulf Coasts, 1979, PB 81-165557

COMMERCIAL FISHERIES

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products.

Year	Accession number	Year	Accession number
1966	COM-75-10662	1974	COM-75-10862
1967	COM-75-10663	1975	PB-25-3966
1968	COM-75-10664	1976	PB-268662
1969	COM-75-10665	1977	PB-282741
1970	COM-71-50081	1978	PB-297083
1971	COM-75-10666	1979	PB-80-201593
1972	COM-73-50644	1980	PB-81-241648
1973	COM-74-50546		

Fishery Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession number	Year	Accession number
1939	COM-75-11265	1958	COM-75-11061
1940	COM-75-11266	1959	COM-75-11062
1941	COM-75-11267	1960	COM-75-11063
1942	COM-75-11268	1961	COM-75-11064
1943	COM-75-11269	1962	COM-75-11065
1944	COM-75-11270	1963	COM-75-11066
1945	COM-75-11271	1964	COM-75-11067
1946	COM-75-11272	1965	COM-75-11068
1947	COM-75-11273	1966	PB-246429
1948	COM-75-11274	1967	PB-246430
1949	COM-75-11275	1968	COM-72-50249
1950	COM-75-11056	1969	COM-75-10887
1951	COM-75-11053	1970	COM-75-10643
1952	COM-75-11054	1971	COM-74-51227
1953	COM-75-11055	1972	COM-75-11430
1954	COM-75-11057	1973	PB-262058
1955	COM-75-11058	1974	PB-277796
1956	COM-75-11059	1975	PB-300625
1957	COM-75-11060	1976	PB-81-163438

STATE LANDINGS

Maine, 1946-76, PB-271296/1977-79, PB-81-128258.
Massachusetts, 1943-76, PB-275866/1977-79, PB-81-143182.
Rhode Island, 1954-77, PB-287627/1978-79, PB-81-157158.
New York, 1954-76, PB-275449/1977-79, PB-81-134546.
New Jersey, 1952-76, PB-275696/1977-79 PB-81-159048.
Maryland, 1960-76, PB-300636/1977-79 PB-81-159030
Virginia, 1960-76, PB-300637/1977-79 PB-82-151960.
North Carolina, 1955-76, PB-288928/1977-79 PB-82-151978.
South Carolina, 1957-76, PB-289405/1977-79 PB-81-163198.
Georgia, 1956-77, PB-289814/1977-78 PB-81-157166.
Florida, 1950-76, PB-292068.
Alabama 1950-77, PB-80-121262/1978 PB-82-168071.
Mississippi, 1951-77, PB-80-121270/1978 PB-82-169079.
Louisiana, 1957-77, PB-300583/1978 PB-82-168063.
Texas, 1949-77, PB-300603/1978-79 PB-82-169004.
Shrimp, 1956-76, PB-80-124696/1977-78 PB-82-156183.
Gulf Coast Shrimp Data, 1958-76, PB-80-126899/1977 PB-82-170390.

Processors of Fishery Products in U.S. (excludes Alaska) 1980 (shows firm name, address, and major products). (No accession number assigned.)
Processors and Wholesalers of Alaska Fishery Products, 1978, PB-299246.

Wholesale Dealers of Fishery Products in U.S. (excludes Alaska) 1980, (shows firm name, address and major products) PB-82-185190.

Directory of Aquaculture in the Southeast, 1976, PB-272-1512.

Revenues, Costs, and Returns from Vessel Operation in Major U.S. Fisheries, PB-265275.

Seafood Plant Sanitation, PB-271161.

BASIC ECONOMIC INDICATORS

American and Spiny Lobster, 1947-73, COM-74-11587.
Atlantic and Pacific Groundfish, 1932-72, COM-74-11638.
Blue Crab, 1947-72, COM-74-11585.
Clams, 1947-74, COM-75-11089.
Halibut, 1929-72, COM-74-11583.
King and Dungeness Crabs, 1947-72, COM-74-11586.
Menhaden, 1946-72, COM-74-11581.
Oysters, 1947-73, COM-75-10384.
Salmon, 1947-72, COM-74-11710.
Scallops, 1930-72, COM-74-11582.
Shrimp, 1947-72, COM-74-11709.
Tuna, 1947-72, COM-74-11584.

Baseline Economic Forecast of the U.S. Fishing Industry to 1985, COM-75-11156.

Economic Impacts of the U.S. Commercial Fishing Industry, COM-75-11354.

A Survey of Fish Purchases by Socio-Economic Characteristics - Annual Report, COM-71-00647.

Future Investment in U.S. Fish Harvesting and Processing: A Discussion of Possible Alternative Requirements Through 1985, PB-249591.

National Marine Fisheries Service: Seafood Consumption, 1973-1974, (a magnetic tape) PB-294-725

National Marine Fisheries Service: Species/Mercury Data (a magnetic tape) PB-283265.

The Maryland Blue Crab and Oyster Processing Industries: The Effects of Government Regulations, PB-82-159054

To purchase the reports listed on this page, call or write:

NTIS
ATTN: Order Desk
5285 Port Royal Road
Springfield, VA 22161
703-487-4650

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

FISHERY STATISTICS OF THE UNITED STATES
(Statistical Digest)

Year	Stock number	Price (per copy)
1976	003-017-00490-2	$9.50

SHELLFISH REPORTS

Stock Number	
003-020-00142-4	"The Molluscan Shellfish Industries and Water Quality--Problems and Opportunities," A report to Congress by the Secretary of Commerce. . .$2.50
003-020-00131-9	"A Comprehensive Review of the Commercial Oyster Industries in the United States". . .$2.50
003-020-00135-1	"Water Quality and Molluscan Shellfish: An Overview of the Problems and the Nature of Appropriate Federal Laws" . . .$4.25

ANGLER'S GUIDE TO THE UNITED STATES ATLANTIC COAST

003-020-00068-1	Section I - Passamaquoddy Bay, Maine, to Cape Cod. . .$4.75
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003-020-00099-1	Section VIII - St. Lucie Inlet, Florida, to the Dry Tortugas . . .$6.00

ANGLER'S GUIDE TO THE UNITED STATES PACIFIC COAST

003-020-00113-1	Marine Fish, Fishing Grounds and Facilities. . .$8.50

MARINE ANIMAL CHARTS
(printed on washable non-glare plasticized paper)

003-020-00027-4	Marine Fishes of the North Atlantic. . .$5.50
003-020-00051-7	Marine Fishes of the North Pacific. . .$5.50
003-020-00055-0	Marine Fishes of the California Current. . .$5.50
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003-020-00106-8	Marine Mammals of the Western Hemisphere. . .$6.50

SEAFOOD COOKBOOKS

003-020-00001-1	How to Eye and Buy Seafoods . . .$1.75
003-020-00052-5	Fish and Shellfish Over the Coals. . .$1.75
003-020-00053-3	Let's Cook Fish (Revised) . . .$1.75
003-020-00074-6	A Little Fish Goes a Long Way . . .$1.75
003-020-00089-4	Country Catfish (Revised). . .$0.60
003-020-00101-7	A Seafood Heritage: From America's First Industry. . .$1.75
003-020-00104-1	Seafood Slimmers. . .$1.75
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003-020-00109-2	Nautical Notions for Nibbling . . .$1.75
003-020-00118-1	A Seafood Heritage: From the Rappahannock to the Rio Grande . . .$1.75
003-020-00122-0	A Seafood Heritage: From Plymouth to the Prairies. . .$2.25
003-020-00124-6	A Seafood Heritage: From the Plains to the Pacific. . .$2.75
003-020-00144-1	Seafoods for Health. . .$1.75
003-020-00145-9	Vitalize Your Life - Discover Seafood. . .$0.75 $6.50/100

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Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
202-783-3238

SEA GRANT MARINE ADVISORY SERVICE

The office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Marine Advisory Service offers a broad range of information to recreational and commercial fishermen, fish processors, and others concerning the Nation's fisheries. The following program leaders can provide information on Sea Grant activities:

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Jeffery M. Reutter, Director
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Ohio State University
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Columbus, OH 43210
614-422-8949

SERVICES

FISHERIES DEVELOPMENT SERVICES

The National Marine Fisheries Service (NMFS) provides many services with emphasis on developing our Nation's fisheries, particularly for underutilized species. Information is available describing foreign and domestic markets for a variety of species of fish and shellfish. Other services include assistance to organize fishery cooperatives, information on foreign tariffs, trade barriers, fishing vessel safety and insurance, and to identify needless regulations which erode industry stability and limit its growth. Market reports covering foodfish, shellfish, and industrial fishery products are issued periodically. Consumer services include educational and training information material for consumers, trade and retail food industries. Information on seafood purchasing, preparation, and handling is supplied through the industry representatives and trade associations. Financial services are available to give fishermen access to private sources of long term financing for fishing vessel construction, reconstruction, and reconditioning (see back cover). A voluntary Federal inspection service is provided for fishery products to ensure that wholesome, safe, and acceptable seafood products are provided for the consumer (see inside back cover).

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Thomas J. Billy, Chief
Seafood Research, Inspection
and Consumers Services Division
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Michael L. Grable, Chief
Financial Services Division
Address same as above
202-634-7496

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SERVICES

CONSUMER AFFAIRS

The Consumer Services Branch is in the Seafood Research, Inspection, and Consumer Services Division of the National Marine Fisheries Service.

The Consumer Services Branch provides educational and informational materials and services as follows:

SERVICES

- cooperative educational and marketing activities with industry
- workshops/presentations on seafood issues
- complaint handling
- distribution of educational and informational materials
- provide information about --
    - the voluntary seafood inspection program
    - grade standards and Federal specifications for seafood
    - seafood labeling approval

MATERIALS

- how to --
    - select, handle, and prepare seafood
    - can, smoke, and freeze seafood
    - determine quality of fresh, frozen, and canned seafood
- seafood recipes
- nutritional data on seafoods
- audio-visual materials (teacher's unit, seafood charts, brochures)
- news releases on fisheries/consumer information
- best-buy information

LOCATION

The Consumer Services Branch is in the Washington, D.C., area. For further information please contact the following:

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3300 Whitehaven Street, NW.
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GLOSSARY

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the MFCMA, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces, whole shrimp, or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, jars, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, and other edible aquatic plants and animals; and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that are at the harvestable stage either (a) immobile on or under the seabed or (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The MFMCA now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, and smoking. Do not include canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

EUROPEAN ECONOMIC COMMUNITY (EEC). Belgium and Luxembourg, Denmark, Federal Republic of Germany, France, Ireland, Italy, Netherlands, and United Kingdom.

EXVESSEL PRICE. Price received at the dock for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next larger dimension. A fish stick is generally cut from a fish block.

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council to manage a fishery resource pursuant to the MFCMA.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and rerigging.

GROSS REGISTERED TONNAGE (GRT). The gross registered tonnage of a vessel is the internal cubic capacity of all space in and on the vessel that is permanently enclosed, with the exception of certain permissible exemptions. GRT is expressed in tons of 100 cubic feet.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In import statistics shown in "Fisheries of the United States," the term applies to the following species: cod, cusk, haddock, hake, pollock, and Atlantic ocean perch.

INDEXES OF EXVESSEL PRICES. Indexes of exvessel prices in this report are calculated by averaging prices for the various species of fish. The weight assigned to each species represents its importance in the total exvessel value of all species in 1966-70. Detailed data are aggregated to obtain indexes for groups of species. Each index measures price changes from 1967, the reference period, which is designed as 100. An increase of 85 percent from the reference period in the index, for example, is shown as 185.0.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNATIONAL CONVENTION FOR THE NORTHWEST ATLANTIC FISHERIES (ICNAF). This convention, which entered into force on July 3, 1950, was for the investigation, protection, and conservation of the fishery resources of the Northwest Atlantic Ocean. In 1975, there were 18 member nations. The United States withdrew from ICNAF on December 31, 1976, because continued adherence to the convention was deemed incompatible with the extension of U.S. fishery management jurisdictions to 200 miles under the Magnuson Fishery Conservation and Management Act of 1976. See Northwest Atlantic Fisheries Organization (NAFO).

JOINT VENTURE. An operation authorized under the MFCMA in which a permitted foreign vessel receives fish in the U.S. FCZ from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended, (MFCMA). The Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. The MFCMA established the U.S. fishery conservation zone (FCZ) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. FCZ, the United States has exclusive management authority over all fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Act provides further exclusive management authority beyond the U.S. FCZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fishermen.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption. If part or all of the catch is sold, the monetary returns constitute an insignificant part of the person's income.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources of the Northwest Atlantic. NAFO will manage fishery resources that occur beyond the limits of coastal nations fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction. U. S. adherence to the NAFO Convention is anticipated in 1980.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons. See "boat, other."

OPTIMUM YIELD (OY). In the MFCMA, OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with whom the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery, for which there is no fishery management plan (FMP). A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, shall be that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. FISHERY CONSERVATION ZONE (FCZ). The MFCMA defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured.

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all States except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products both edible and nonedible on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Prices in this report generally are those received at principal fishery markets by primary wholesalers (processors, importers, and brokers) in customary quantities, free on board (f.o.b.) warehouse.

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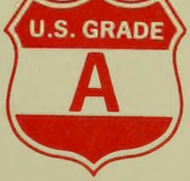
Federal Inspection Marks For Fishery Products

FISHERY PRODUCTS ARE VOLUNTARILY INSPECTED. Beef and poultry, as well as many other perishable food items, are federally inspected at various stages of processing to ensure buyers that the product is safe, wholesome, and acceptable. Fishery products have no similar mandatory Federal inspection program; however, the U.S. Department of Commerce (USDC) provides a voluntary inspection program for fishery products. Seafood processors, packers, brokers, and users who are interested in having USDC inspect their products may subscribe voluntarily to the program. Users of the service pay for USDC inspection which evaluates their raw materials, ensures the hygienic preparation of products, and certifies the final quality and condition of the product. The USDC inspector functions as an objective observer in evaluating processing techiques and product quality and condition. Products packed in plants under USDC inspection can carry marks for easy consumer identification.

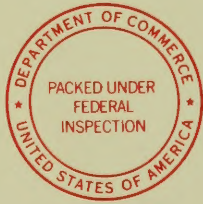
FEDERAL INSPECTION MARKS. Federal inspection marks are official marks approved by the Secretary of Commerce and authorized for use on brand labels of fishery products. When displayed on product labels, these marks signify that inspectors licensed by the Department of Commerce inspected, graded, and certified the products as having met all the requirements of inspection regulations, and have been produced in accordance with official U.S. grade standards or approved specifications.

WHAT DO THE INSPECTION MARKS MEAN? The distinctive inspection marks are symbols that signify two distinct but related functions in guiding the consumer to safe, wholesome products produced in a sanitary environment and packed in accordance with uniform quality standards under the supervision of the U.S. Department of Commerce's voluntary inspection service. The functions symbolized by each mark follow:



"U.S. GRADE" MARK. The "U.S. Grade" mark signifies that:

1. The product is clean, safe, and wholesome.
2. The product is of a specified quality, identified by the appropriate U.S. Grade designation, as determined by a federally - licensed inspector in accordance with established requirements in U.S. Grade Standards.
3. The product was produced in an acceptable establishment with proper equipment and in an appropriate processing environment as required by food control authorities.
4. The product was processed under supervision by federally - licensed food inspectors and packed in accordance with specific Good Manufacturing Practice Requirements.



5. The product is truthfully and accurately labeled as to common or usual name, optional ingredients, and quantity.

"PACKED UNDER FEDERAL INSPECTION" MARK. "Packed Under Federal Inspection" may be displayed as an official mark or as an official statement on the product label. The mark or statement signifies that the properly labeled product is clean, safe, and wholesome and has been produced in an acceptable establishment with appropriate equipment under the supervision of federally - licensed inspectors. The product has not been graded as to a specific quality level; rather, it is an acceptable commercial quality as determined by Federal inspectors in accordance with approved standards or specifications.

FOR FURTHER INFORMATION

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(601) 762-4591

Western Inspection Office
4847 Eastern Ave.
Building No. 7
Bell, CA 90201
(213)265-0534

Inspection Services Branch
3300 Whitehaven St., N.W.
Washington, DC 20235
(202) 634-7458

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE (F/SR1)
Washington, D.C. 20235

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WESTERN PACIFIC PROGRAM OFF
NATIONAL MARINE FISHERIES
SERVICE (FSWI)
PO BOX 3830
HONOLULU HAWAII 96812

Financing For Fishing Vessels

Two National Marine Fisheries Service programs are available for financing the construction and refurbishing of commercial fishing vessels and commercial passenger-carrying fishing vessels.

The Fishing Vessel Obligation Guarantee Program is available for financing up to 87½ percent of the cost of constructing, reconstructing, or reconditioning fishing vessels of 5 net tons or over. Maturities of 15 to 25 years are available.

The long-term financing available under this program allows fishing vessel owners to stretch the debt service of their vessel construction or refurbishing costs over a period of time equal to the economically useful life of their vessel. Down payments are low and interest costs are reasonable.

The Fishing Vessel Capital Construction Fund Program allows fishing vessel owners to defer payment of Federal tax on any portion of income earned from the operation of fishing vessels of at least 2 net tons when that income is reserved for payment toward the cost of vessel construction or reconstruction.

This provides an interest-free loan from the U.S. Government equal to the Federal taxes which otherwise would have been paid on vessel income.

Deferred taxes are eventually repaid to the U.S. Government through a reduction in the depreciation allowed on vessels constructed or reconstructed with tax deferred funds. The "interest-free loan" character of the tax deferral, thus, continues through the depreciable life of the vessel.

This tax-deferral program compensates for vessel owner's general lack of access to the equity capital market by reducing the amount which must be initially borrowed from conventional sources to finance vessel construction or reconstruction.

Several other programs are available. One compensates for fishing gear which has been damaged or destroyed under certain circumstances; another indemnifies against seizure by foreign governments; and one compensates for gear damage which has been caused by outer continential shelf energy activities.

For Further Information

Contact one of the following Financial Services offices of the National Marine Fisheries Service, NOAA, U.S. Department of Commerce:

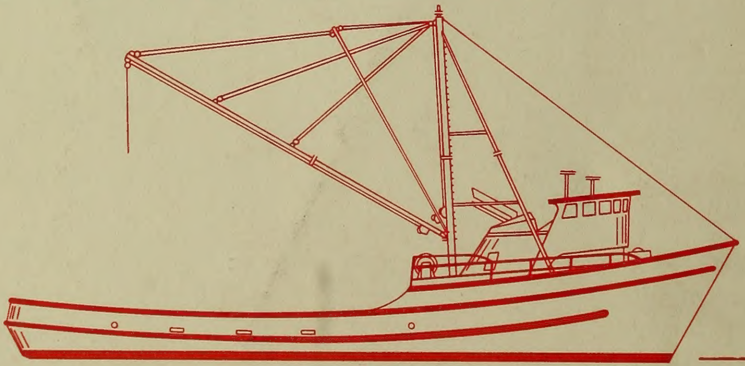
Post Office Bldg., P.O. Box 1109
Gloucester, MA 01930
(617) 281-3600

1700 Westlake Ave., North
Seattle, WA 98109
(206) 442-5532

P.O. Box 3830
Honolulu, HI 96812
(808) 946-2181

9450 Koger Blvd.-Duval Bldg.
St. Petersburg, FL 33702
(813) 893-3148

300 South Ferry St.
Terminal Island, CA 90731
(213) 548-2478



NOAA--S/T 82-134